# Appendix F
# Data Validation Report and Analytical Data

# Revised Site Investigation Report
# Data Validation and Analytical Report
# Sanitary Landfill
# Former Laredo Air Force Base, Texas

**Appendix F**

Prepared for

U.S. Army Corps of Engineers
Tulsa District

Contract No.

DACA56-97-D-0010
Task Order No. 37

April 2000

**CH2MHILL**

Tulsa, Oklahoma

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# FORMER LAREDO AIR FORCE BASE

**(Laredo International Airport)**

## Phase I (Preliminary Investigation)

Chemical Data Quality Report
for
Sanitary Landfill Area

Laredo, Texas

Prepared by the U.S. Army Corps of Engineers - Tulsa District
December 1997

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# 1.0 Introduction.

The U.S. Army Corps of Engineers (USACE), Tulsa District, conducted a preliminary investigation of a number of landfills which had been identified by air photos on land formerly owned by the U.S. Air Force. A neighborhood and an elementary school currently reside near or on top of the suspected landfill areas which belonged to the Former Laredo Air Force Base.

During the months of June and July 1997, the USACE collected 48 soil boring samples, 4 sediment samples, and 55 groundwater samples. In addition, 4 quality assurance (QA) groundwater and 4 travel blank samples were collected; 5 QA soil boring and 2 equipment blank (EB) samples were collected; 1 quality control (QC), 1 QA sediment sample and 1 associated EB sample were collected. During the investigation, 5 prepurge samples (denoted with a "U") were collected to provide additional information relating to the sampling technique employed. 1 water sample (PW) was collected from a local water source to judge its chemical quality for use in decontamination procedures. 1 composite investigative derived waste (IDW) sample was collected from three 55 gallon drums used to temporarily store decontamination fluids and lab waste generated during the investigation.

All soil boring samples were collected with the use of the USACE Site Characterization and Analysis Penetrometer System (SCAPS) and earthprobe. Groundwater samples were collected from temporary wells installed by SCAPs technology. All samples were collected and analyzed in accordance with state and federal guidance documents which establish definitive analytical/technical elements, i.e., SW-846 and other EPA methods.

USACE field representatives distributed the samples to USACE Southwestern Division (SWD) Laboratory for distribution and analysis. The majority of field samples were distributed to Intertek Testing Services (ITS). Specific QA duplicate samples were analyzed by SWD lab and Environmental Chemical Corporation (ECC). See Appendix A for a synopsis of the chain of custodies.



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## 2.0 Scope and Objectives.

There were two main objectives of the preliminary investigation (1) define the nature of any contamination associated with the sanitary landfill cells and (2) to determine the groundwater flow direction of any groundwater which may have been affected by the site.

The USACE planned to meet these objectives by conducting the following activities:

(1) Conduct an electromagnetic (EM) survey by USACE Waterways Experiment Station to evaluate areas where the suspected landfill cells are anticipated and where investigation activities may occur.

(2) Conduct a soil gas survey by a USACE contractor to sample and analyze a number of locations in and around the area of investigation.

(3) Collect approximately 4 surface water samples (if practical) and 4 sediment samples from a drainage ditch located on the western portion of the site.

(4) Collect soil samples at three depths from approximately 18 locations in and around the area of investigation.

(5) Install approximately 60 temporary wells in and around the area of investigation.

The text within this document discusses details associated with groundwater, soil, and sediment samples collected during activities described above in points 3 through 5.



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## 3.0 Data Quality Objectives and Laboratory Deliverables.

The USACE defines data quality objectives (DQOs) as an integrated set of thought processes which define data quality requirements based on the intended use of the data. Many of these DQOs are defined and reported within various USACE regulations, i.e., ER-1110-1-263, and within the text of specified analytical methods, i.e., SW-846 manual.

To ensure that the quality of data is adequate for the decision making process, the USACE requires that certain data quality objectives be met and that the following laboratory deliverables be provided:

- Results of field samples, laboratory blanks, surrogate spikes, surrogate recoveries, matrix spikes, laboratory control samples, laboratory duplicates, matrix spike duplicates, relative percent differences, field duplicates, and field blanks.
- The selected analytical methods must be able to adequately detect the analytes of concern. Action levels must be taken into account by the technical staff.
- Sample identification numbers cross-referenced with laboratory identification numbers and quality control sample numbers. Table(s) which cross reference field samples with associated method blanks, matrix spikes, and matrix spike duplicate samples.
- Legible copies of the fully executed chain of custody forms and cooler receipt forms on which the laboratory has documented the condition of the samples on arrival.
- Each analyte will be reported as an actual value or less than a specified quantitation limit. Actual sample results and method detection limits will be reported in a tabular format. Data qualifiers will be used to address sample/analytical anomalies associated with an analyte.
- Soil samples will be reported on a dry weight basis with moisture content. Dilution factors, sampling dates, extraction dates, and analysis dates will also be reported.
- ASCII or DBASE format data files, submitted per the "Guidance for Submittal of Data of Electronic Media for the Tulsa District HTRW Project Database."

Analytical details, such as, calibration data, mass spectra, chromatograms, method detection limit studies, performance standards, and other lab quality control information are not generally requested, but are available to the customer upon request.

## 4.0 Standards of Comparability.

The U.S. Army Corps of Engineers (USACE) assures that chemical data results generated from in-house programs and architect-engineering contracts are both reliable and defensible. This is accomplished by following the guidelines set fourth in ER 1110-1-263; Chemical Data Quality Management for Hazardous Waste Remedial Activities. Other guidance documents associated with sampling, analysis, and validation include, but are not limited to, "RCRA Groundwater Monitoring Draft Technical Guidance; EPA/530-R-93-001 (November 1992)", "Compendium of ERT Soil Sampling and Geophysics Procedures; EPA/540/P-91/006 (January 1991)", "USACE MCX-Sampling and Analysis Requirements for Measurement of Chemicals in the Environment (June 1993)", "National Functional Guidelines For Organic Data Review (June 1991)", and "National Functional Guidelines For Evaluating Inorganics Analyses (July 1988)."

The U.S. Army Corps of Engineers requests that all contractor laboratories be approved by USACE Center of Expertise (HTRW-CX). All samples are shipped to USACE Southwestern Division (SWD) laboratory prior to analysis. Each of the laboratories is required to have in place a laboratory quality control program which certifies that the data generated from the lab is reliable and defensible. The contracting laboratory generally initiates another level of review to insure that the data is reliable, defensible, and complete. Parallel to these activities, the USACE requires that quality assurance (QA) samples are to be collected and distributed to the government laboratory. A similar review and validation process is conducted upon the QA samples.

Upon receipt of the contractor's sample data, contractor's laboratory report, USACE sample data, and USACE laboratory report, the USACE District office initiates another review. The District office reviews the findings of both the contractor and USACE laboratory reports, and determines if the generated data is indeed reliable, defensible, and complete. Inconsistencies found between the field, quality control duplicate, and quality assurance duplicate samples are investigated. Guidelines previously mentioned, are employed to judge the validity of the results. Differences in field, QC, and QA duplicate sample results which are greater than five times the practical quantitation limit (PQL) are noted. Differences that are greater than a factor of two for aqueous samples and a factor of five for soil/sediment samples are considered to fall outside typical quality control ranges. Differences which cannot be analytically interpreted are noted by the project chemist and evaluated by the technical team.

Analytical results for both field and duplicate analyses have been tabulated and reported in Appendix B of this report.



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# 5.0 Comparability Discussions.

**5.1 Analytical Requirements**. Three separate mediums were identified to be sampled, these included soil, sediment and groundwater. All three mediums were requested to be analyzed for volatile organics (VOCs), semivolatile organics (SVOCs), undissolved (total) metals, herbicides (Herb), pesticides (Pest), and polychlorinated biphenyls (PCBs). These parameters were analyzed by utilizing the following methods:

Table 5.1 - Analytical Requirements

| Groundwater | Soil | Sediment |
|---|---|---|
| SW846 **8260B** (volatile organics) | SW846 **8260B** (volatile organics) | SW846 **8260B** (volatile organics) |
| SW846 **8270B** (semivolatile organics) | SW846 **8270B** (semivolatile organics) | SW846 **8270B** (semivolatile organics) |
| metals: SW846 **7060** (arsenic)<br>SW846 **6010** (aluminum, antimony, barium, beryllium, cadmium, cobalt, calcium, chromium, copper, iron, magnesium, manganese, nickel, tin, vanadium, zinc, potassium, sodium, thallium, and silver)<br>SW846 **7421** (lead)<br>SW846 **7740** (selenium)<br>SW846 **7470** (mercury) | metals: SW846 **7060** (arsenic)<br>SW846 **6010** (aluminum, antimony, barium, beryllium, cadmium, cobalt, calcium, chromium, copper, iron, magnesium, manganese, nickel, tin, vanadium, zinc, potassium, sodium, thallium, and silver)<br>SW846 **6010** (lead)<br>SW846 **7740** (selenium)<br>SW846 **7471** (mercury) | metals: SW846 **7060** (arsenic)<br>SW846 **6010** (aluminum, antimony, barium, beryllium, cadmium, cobalt, calcium, chromium, copper, iron, magnesium, manganese, nickel, tin, vanadium, zinc, potassium, sodium, thallium, and silver)<br>SW846 **6010** (lead)<br>SW846 **7740** (selenium)<br>SW846 **7471** (mercury) |
| SW846 **8150** (herbicides) | SW846 **8150** (herbicides) | SW846 **8150** (herbicides) |
| SW846 **8080** (pesticides/polychlorinated biphenyls) | SW846 **8080** (pesticides/polychlorinated biphenyls) | SW846 **8080** (pesticides/polychlorinated biphenyls) |

**5.2 Field and QA Duplicate Discussions**. The following sections evaluate how close individual field and QA duplicate sample results compare. Field and QA duplicate results have been tabulated and reported within Appendix B of this report.

### 5.2.1 Sample LF-SB2 (2.0).

Field and QA duplicate soil boring samples were collected at location LF-SB2(2.0). A volatile organic QA duplicate was collected at this location. No other QA parameters were collected due to insufficient soil sample recovery. The field and QA duplicate results were reviewed and found to be generally inconsistent. A notable number of volatile organic analytes and tentatively identified compounds (TICs) were detected in the QA laboratory's results, see Appendix B, Table B-1. Landfill materials (concrete, brick, wood, paper, plastic, glass) and soil staining were encountered in and around this location.



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These materials hampered the recovery of soil samples. Laboratory quality control data supports the validity of both the field and QA sample results, therefore it is believed that due to the nonhomogeneous matrix of the soil sample that the QA sample is most representative of detected contaminants at this location.

It was noted that the primary laboratory employed SW846 method 8260 to analyze the volatile organic sample while the QA lab employed method 8260A. Analytical methods are reported to be comparable.

Results are tabulated in Appendix B, Table B-1 (p. B-1).

### 5.2.2 Sample DR-SD1.

Field, QC and QA duplicate sediment samples were collected at location DR-SD1. QC duplicate samples were collected for all parameters described in Table 5.1. The field and QC results were reviewed and found to be in agreement.

QA duplicate samples were collected for all parameters described in Table 5.1. The field and QA results were reviewed and found to be in general agreement, except for the volatile organic, pesticide/PCB and herbicide analyses. It was noted that the primary laboratory analyzed herbicides by SW846 method 8151 instead of method 8150. These methods are comparable; method 8151 includes a larger analyte list.

It was noted that the primary laboratory analyzed pesticides and PCBs by SW846 method 8081 instead of method 8080. These methods are comparable; method 8081 includes a larger analyte list. It was also noted that the QA laboratory identified the existence of additional pesticide analytes undetected by the primary laboratory. The QA lab also indicated difficulties with quantifying these analytes due to coelution.

It was noted that the primary laboratory employed SW846 method 8260 to analyze the volatile organic sample while the QA lab employed method 8260A. Analytical methods and results are reported to be comparable.

Results are tabulated in Appendix B, Table B-2 (p. B-3).



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### 5.2.3 Sample LF-W9.

Field and QA duplicate groundwater samples were collected at location LF-W9. A volatile organic QA duplicate sample was collected from this location. No other QA parameters were collected due to insufficient groundwater recovery. The field and QA duplicate results were reviewed and found to be in agreement.

It was noted that the primary laboratory employed SW846 method 8260 to analyze the volatile organic sample while the QA lab employed method 8260A. Analytical results and methods are reported to be comparable.

Results are tabulated in Appendix B, Table B-3 (p. B-16).

### 5.2.4 Sample LF-W13.

Field and QA duplicate groundwater samples were collected at location LF-W13. A volatile organic QA duplicate sample was collected from this location. No other QA parameters were collected due to insufficient groundwater recovery. The field and QA duplicate results were reviewed and found to be in agreement.

It was noted that the primary laboratory employed SW846 method 8260 to analyze the volatile organic sample while the QA lab employed method 8260A. Analytical methods and results are reported to be comparable.

Results are tabulated in Appendix B, Table B-4 (p. B-18).

### 5.2.5 Sample LF-W24.

Field and QA duplicate groundwater samples were collected at location LF-W24. A volatile organic QA duplicate sample was collected from this location. No other QA parameters were collected due to insufficient groundwater recovery. The field and QA duplicate results were reviewed and found to be in agreement.

It was noted that the primary laboratory employed SW846 method 8260 to analyze the volatile organic sample while the QA lab employed method 8260A. Analytical methods and results are reported to be comparable.

Results are tabulated in Appendix B, Table B-5 (p B-20).



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### 5.2.6 Sample LF-SB35(5.0).

Field and QA duplicate soil samples were collected at location LF-SB35(5.0). A semivolatile organic QA duplicate sample was collected from this location. No other QA parameters were collected due to insufficient soil sample recovery. The field and QA duplicate results were reviewed and found to be in agreement.

Results are tabulated in Appendix B, Table B-6 (p. B-22).

### 5.2.7 Sample LF-SB50(8.0).

Field and QA duplicate soil samples were collected at location LF-SB50(8.0). Volatile organic and metal QA duplicate samples were collected from this location. No other QA parameters were collected due to insufficient soil sample recovery. The field and QA duplicate results were reviewed and found to be in general agreement. The QA laboratory did not report the results for the metal zinc. The laboratory will be contacted.

It was noted that the primary laboratory analyzed lead by SW846 method 6010 instead of the requested method 7421. Analytical methods and results are reported to be comparable.

It was noted that the primary laboratory employed SW846 method 8260 to analyze the volatile organic sample while the QA lab employed method 8260A. Analytical methods and results are reported to be comparable.

Results are tabulated in Appendix B, Table B-7 (p. B-29).

### 5.2.8 Sample LF-W39.

Field and QA duplicate groundwater samples were collected at location LF-W39. A volatile organic QA duplicate sample was collected from this location. No other QA parameters were collected due to insufficient groundwater recovery. The field and QA duplicate results were reviewed and found to be in agreement.

It was noted that the primary laboratory employed SW846 method 8260 to analyze the volatile organic sample while the QA lab employed method 8260A. Results are reported to be comparable.

Results are tabulated in Appendix B, Table B-8 (p. B-33).



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### 5.2.9 Sample LF-SB47(5.0).

Field and QA duplicate soil samples were collected at location LF-SB47(5.0). A herbicide QA duplicate sample was collected from this location. No other QA parameters were collected due to insufficient soil sample recovery. The field and QA duplicate results were reviewed and found to be in general agreement. It was noted that the primary laboratory analyzed herbicides by SW846 method 8151 instead of method 8150. These methods are comparable; method 8151 includes a larger analyte list.

Results are tabulated in Appendix B, Table B-9 (p. B-35).

### 5.2.10 Sample LF-SB39(5.0).

Field and QA duplicate soil samples were collected at location LF-SB39(5.0). A semivolatile organic QA duplicate sample was collected from this location. No other QA parameters were collected due to insufficient soil sample recovery. The field and QA duplicate results were reviewed and found to be in agreement.

Results are tabulated in Appendix B, Table B-10 (p. B-36).



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## 5.3 Laboratory and Technical Discussions.

The following sections summarize observations and issues regarding the analytical data and chain of custody forms. Additional information may be found by reviewing the laboratory data reports. All chemical data has been reported within SWD Reports #16824 through #16824-4.

**5.3.1 SWD Report #16824.** As indicated in the case narrative, the majority of all the relative percent differences (RPDs), matrix spikes (MS), matrix spike duplicates (MSDs), surrogate, laboratory control spikes (LCSs), and laboratory control spike duplicate (LCSDs) recoveries were within the acceptable control limits. Exceptions are highlighted below and detailed within the lab report.

**5.3.1.1 Accuracy & Precision.** MS and MSDs, LCS and LCSDs, surrogates, and RPDs were reported as acceptable with the following exceptions:

Volatile organic sample batch 970721W1 required that a LCS and LCSD be prepared instead of a MS and MSD.

Metal sample batch AC160-10F reported that MS, MSD, and RPDs fell outside quality control limits for lead and selenium due to matrix interference.

Pesticide sample batch AC142-49A required that a blank spike (BS) and blank spike duplicate (BSD) be prepared instead of a MS and MSD.

Herbicide sample batch AC142-50 required that a BS and BSD be prepared instead of a MS and MSD.

Semivolatile organic sample batch AC142-56 required that a BS and BSD be prepared instead of a MS and MSD.

**5.3.1.2 Representativeness.** All method and travel blanks were reported to be free of contamination. Sample LF-SB55(2.0)EB indicated the presence of 0.235 mg/L of aluminum, 10.7 mg/L of sodium, 0.0529 ug/L of endosulfan II, and one semivolatile organic tentatively identified compound (TIC).

**5.3.1.3 Completeness.** Pesticide/PCBs results for sample LF-SB55(2.0)EB were found to be missing in the submittal to the Tulsa District. The laboratory has forwarded the missing results to the District. All other samples appear to have been properly received and analyzed.



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**5.3.2 SWD Report #16824-1.** As indicated in the case narrative, the majority of all the relative percent differences (RPDs), matrix spikes (MS), matrix spike duplicates (MSDs), surrogate, laboratory control spikes (LCSs), and laboratory control spike duplicate (LCSDs) recoveries were within the acceptable control limits. Exceptions are highlighted below and detailed within the lab report.

**5.3.2.1 Accuracy & Precision**. MS and MSDs, LCS and LCSDs, surrogates, and RPDs were reported as acceptable with the following exceptions:

Semivolatile organic sample batch AC141-22 required that a BS and BSD be prepared instead of a MS and MSD.

Metal sample batch 17627F reported that MS, MSD, and RPDs fell outside quality control limits for lead and selenium due to matrix interference.

Pesticide sample batch AC141-21 required that a BS and BSD be prepared instead of a MS and MSD.

**5.3.2.2 Representativeness**. All method and travel blanks were reported to be free of contamination.

**5.3.2.3 Completeness**. The herbicide sample for location LF-W35 could not be analyzed due to insufficient sample volume. All other samples appear to have been properly received and analyzed.

**5.3.3 SWD Report #16824-2.** As indicated in the case narrative, the majority of all the relative percent differences (RPDs), matrix spikes (MS), matrix spike duplicates (MSDs), surrogate, laboratory control spikes (LCSs), and laboratory control spike duplicate (LCSDs) recoveries were within the acceptable control limits. Exceptions are highlighted below and detailed within the lab report.

**5.3.3.1 Accuracy & Precision.** MS and MSDs, LCS and LCSDs, surrogates, and RPDs were reported as acceptable with the following exceptions:

Volatile organic sample batch 970711S1 required that a LCS and LCSD be prepared instead of a MS and MSD.

Metals sample batch 7-108S reported the following: that MS and MS/MSD RPDs for arsenic and selenium, the sample duplicate RPD for thallium and antimony, and the MS/MSD RPD for antimony and thallium fell outside quality control limits due to a non-homogeneous QC sample.

Semivolatile organic sample batch 97072S33 required that a LCS and LCSD were prepared instead of a MS and MSD. The sample duplicate RPD, LCS, and LCSD fell outside of the quality control limits. The sample was reextracted and reanalyzed.

Pesticide sample batch 767 required that a LCS and LCSD were prepared instead of a MS and MSD.

Metals sample batch DIGSP728 reported that the MS, MSD, and MS/MSD RPD fell outside quality control limits due to matrix interference. The post-digested spike passed the quality control limits.

Metal sample batches 17706 and 17499 reported that the MS, MSD, and MS/MSD RPD for potassium and arsenic fell outside quality control limits due to matrix interference.

Metal sample batches 17701F and 17705F reported that the MS, MSD, and MS/MSD RPD for selenium and arsenic fell outside quality control limits due to matrix interference.

Pesticide sample batch AC141-74A required that a BS and BSD be prepared instead of a MS and MSD.

Pesticide sample batch AC141-94A reported that the MS and MSD for endrin fell outside quality control limits.

Pesticide sample batch AC141-60 reported that the MS, MSD, and MS/MSD RPD for endrin and 4,4'-DDT fell outside of quality control limits due to matrix interference.

Herbicides sample batch AC141-40 reported that a BS and BSD were prepared instead of a MS and MSD.

Herbicide sample batch AC142-78 reported that the MS, MSD, and MS/MSD RPD for 2,4,5-T and 2,4,5-TP fell outside of quality control limits due to nonhomogeneous QC sample.

Semivolatile organic sample batch AC141-37 reported that the MS and MSD for trichlorobenzene fell outside of the quality control limits.



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**5.3.3.2 Representativeness**. The majority of method blanks were free of contamination, however ITS reported a SW846 8151 method blank with "excessive contamination". Effected samples were re-extracted and analyzed outside of their holding times. They include herbicide samples from locations DR-SD1 QA, LF-SB19(2.0), LF-SB1(2.0), LF-SB1(5.0), LF-SB1(8.0), LF-SB2(2.0), LF-SB5(5.0), LF-SB5(10.0), DR-SD1, DR-SD1 QC, DR-SD2, DR-SD3, and DR-SD4. Results should be considered estimated.

Equipment blank sample DR-SD1 EB indicated the presence of 0.68 mg/L of calcium. All travel blanks were reported free of contamination.

**5.3.3.3 Completeness**. Pesticide/PCBs results for sample LF-W10 were found to be missing in the submittal to the Tulsa District. Due to a tracking error the sample was never analyzed. All other samples appear to have been properly received and analyzed.

**5.3.4 SWD Report #16824-3.** As indicated in the case narrative, the majority of all the relative percent differences (RPDs), matrix spikes (MS), matrix spike duplicates (MSDs), surrogate, laboratory control spikes (LCSs), and laboratory control spike duplicate (LCSDs) recoveries were within the acceptable control limits. Exceptions are highlighted below and detailed within the lab report.

**5.3.4.1 Accuracy & Precision**. MS and MSDs, LCS and LCSDs, surrogates, and RPDs were reported as acceptable with the following exceptions:

Volatile organic sample batch 970711S1 and 97078W1 required that a LCS and LCSD be prepared instead of a MS and MSD. Sample batch 97078W1 reported that the LCS/LCSD RPD for 1,2-dibromo-3-chlorpropane was outside of quality control limits.

Metals sample batch 7-104S reported that the sample duplicate RPD for thallium and antimony were outside of quality control limits. The MS/MSD RPD for antimony and thallium were outside of quality control limits due to a non-homogeneous QC sample.

Metals sample batch 7-108S reported that the MS and MSD RPD for arsenic and selenium were outside of quality control limits due to a non-homogeneous QC sample.

Semivolatile organics batch 970714S34 reported that a LCS and LCSD were prepared instead of a MS and MSD. The LCS/LCSD RPD for pentachlorophenol fell outside of the quality control limits.



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Metals sample batch DIGSP728 reported that the MS, MSD and MS/MSD RPD for antimony, thallium, and manganese fell outside of the quality control limits.

Metals sample batch AC1459-33 reported that the MS, MSD and MS/MSD RPD for aluminum, iron, calcium, potassium, and magnesium fell outside of the quality control limits due to a high analyte concentration in the QC sample.

Metals sample batch AC1459-46F reported that the MS, MSD, and MS/MSD RPD for arsenic fell outside of the quality control limits due to matrix interference.

Metal sample batches AC159-25 and AC159-26 reported that the MS, MSD, and MS/MSD RPD for mrercury fell outside of the quality control limits due to a high analyte concentration in the QC sample.

Metal sample batch AC159-33 reported that the MS, MSD, and MS/MSD RPD for antimony fell outside of the quality control limits due to matrix interference.

Metal sample batch AC159-43 reported that the MS, MSD, and MS/MSD RPD for iron and sodium wer outside of quality control limits due to a high analyte concentration in the QC sample.

Pesticide sample batch AC141-92 reported a BS and BSD were prepared instead of a MS and MSD.

Herbicide sample batch AC142-18A reported a BS and BSD were prepared instead of a MS and MSD.

Semivolatile organic sample batch AC142-15 reported that the MSD and MS/MSD RPD for 4-nitrophenol were outside of quality control limits.

Semivolatile organic sample batch AC141-86 reported that a BS and BSD were prepared instead of a MS and MSD.

Samples LF-SB24(6.0), LF-SB28(5.0), LF-SB35(5.0) reported low surrogate recoveries. The samples were reanalyzed at a dilution.



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**5.3.4.2 Representativeness**. The majority of method blanks were free of contamination, however ITS reported a SW846 8151 method blank with "excessive contamination". Effected samples were re-extracted and analyzed outside of their holding times. They include herbicide samples from locations LF-W23, LF-W24, LF-SB14(2.0), LF-SB15(5.0), LF-SB14(6.5), LF-SB24(2.0), LF-SB24(5.0), LF-SB24(6.0), LF-SB28(5.0), LF-SB28(8.0), LF-SB35(2.0), LF-SB35(5.0), LF-SB35(8.0), LF-SB37(2.0), LF-SB49(2.0), LF-SB49(5.0), LF-SB50(2.0), LF-SB50(5.0), and LF-SB50(8.0). Results should be considered estimated

Pesticide samples from locations LF-W23, LF-W24, LF-SB14(2.0)EB and LF-SB14(6.5) were analyzed outside their appropriate holding time due to a tracking error. Results should be considered estimated.

Semivolatile organic samples from locations LF-W23 and LF-SB14(6.5) were analyzed outside the appropriate holding time due to a tracking error. Results should be considered estimated. Semivolatile organic samples from locations LF-SB28(5.0) and LF-SB35(5.0) were diluted and analyzed outside the appropriate holding times when internal standard recoveries were reported to fall outside acceptable QC limits. Initial results should be viewed as acceptable. Both initial and diluted analyses were reported.

Equipment blank sample LF-SB14(2.0) EB indicated the presence of 0.60 mg/L of calcium, 1.5 mg/L of sodium, 26.5 mg/L of zinc. All travel blanks were reported to be free of contamination.

**5.3.4.3 Completeness**. Metal results for sample LF-SB50 (8.0) QA were found to be missing in the submittal to the Tulsa District. The laboratory has forwarded copies of this information to the District. All other samples appear to have been properly received and analyzed.

**5.3.5 SWD Report #16824-4.** As indicated in the case narrative, the majority of all the relative percent differences (RPDs), matrix spikes (MS), matrix spike duplicates (MSDs), surrogate, laboratory control spikes (LCSs), and laboratory control spike duplicate (LCSDs) recoveries were within the acceptable control limits. Exceptions are highlighted below and detailed within the lab report.

**5.3.5.1 Accuracy & Precision**. MS and MSDs, LCS and LCSDs, surrogates, and RPDs were reported as acceptable with the following exceptions:

ITS reported that the matrix spike and associated duplicate extracts were partially spilled during the preparation stage of the analysis. A blank spike and associated duplicate were used to evaluate spike recoveries; spike recoveries fell within acceptable control limits.

Metals sample batch AC160-22 reported that the MS, MSD, and MS/MSD RPD for aluminum, iron, and calcium fell outside of the quality control limits due to a high analyte concentration in the QC sample.

Metals sample batch AC160-53 reported that the MS, MSD, and MS/MSD RPD for sodium fell outside of the quality control limits due to matrix interference.

Metals sample batch AC160-22 reported that the MS, MSD, and MS/MSD RPD for antimony, potassium, and magnesium fell outside of the quality control limits due to matrix interference.

Herbicide sample batch AC142-88 reported that a BS and BSD were prepared instead of a MS and MSD.

Herbicide sample batch AC143-2 reported that the MS, MSD, and MS/MSD RPD fell outside of the quality control limits.

Semivolatile organic sample batch AC143-6 reported that the MS, MSD, and MS/MSD RPD fell outside of the quality control limits due to a preparation error.

Semivolatile organic sample batch AC142-73 reported that a BS and BSD were prepared instead of a MS and MSD.

Volatile organic sample batch 9707177001 reported that a BS and BSD were prepared instead of a MS and MSD.

Volatile organic sample batch 9707187001 reported that the MS, MSD, and MS/MSD RPD fell oustide of quality control limits due to a high analyte concentration in the QC sample.

**5.3.5.2 Representativeness**. Method blanks were reported to be free of contamination.

**5.3.5.3 Completeness**. All samples appear to have been properly received by the laboratory and analyzed.



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**5.3.6 Bubbles in Vials**. A number of volatile organic samples vials were reported to contain bubbles by the laboratory, i.e., SWD #16824, #16824-1, #16824-2. During field sampling activities, it was observed that groundwater samples "foamed" when preserved with acid prior to shipment. Field crews speculated that the pH content of the soil was high enough to react with the preservative. Landfill materials (concrete) which were encountered during the investigation may have also attributed to the "foaming" of the samples; some of these materials have a high pH content..

**5.3.7 Method of Standard Additions**. SWD laboratory performed a number of metal analyses by the method of standard additions (SW846, July 1992, 7000A-10). This method was routinely applied to the metal analytes; selenium, antimony, arsenic, and thallium. Thallium was requested to be analyzed by SW846 method 6010.

**5.3.8 Volatile Organic Method Deviation**. It was noted that the primary laboratory employed SW846 method 8260 to analyze the volatile organic sample while the lab employed method 8260A. Analytical method 8260A was requested on the chain of custody. The workplan originally requested method 8260B. All these methods are comparable; differences lie within the number of analytes listed for each method.

**5.3.9 Lead Method Deviation**. It was noted that all the lead samples analyzed by the primary laboratory referenced in SWD Reports # 16824-3 and #16824-4 were analyzed by SW846 method 6010 instead of method 7421. Results are reported to be comparable.

**5.3.10 Detection Limits**. A number of analytical tests did not report detection limits low enough to reach the risk-based standards for clean-up as reported by the Texas Natural Resource Conservation Commission. In particular, analyses for semivolatile organics, pesticides/PCBs, and herbicides parameters were generally affected. Three factors can account for this deficiency. First, that the chosen analytical methods cannot practically and routinely meet the action limits established by the state for particular analytes. Second, detection limits are dependent upon the volume of sample collected. Due to the limited amount of sample volume collected at several locations, detection limits would be raised accordingly. Third, detection limits are affected by sample dilutions. If sample dilutions were made then detection limits would be raised accordingly.

**5.3.11 Completeness**. Completeness is defined as the percentage of measurements made which are judged to be valid measurements compared to the total number of measurements planned. Table 5.3.1.1 represents proposed and actual field samples collected by field crews. Completion values of less than 100% reflect difficulties associated with sampling temporary wells where no groundwater was collected and the sampling of soil in and around landfill debris which hindered soil sample collection. Completion values of less than 100% also reflect QA/QC field modifications adopted to meet insufficient sample volume recoveries at various soil and groundwater locations.

The majority of collected samples were analyzed and found to reflect a completeness of 100%, however the pesticide/PCB analysis for sample LF-W10 was not performed due to a tracking error. This factor reflects a 99% completion relating to the analyzed pesticide/PCB samples.

Table 5.3.1.1 - Sampling and Analytical Activities

| Proposed Field Samples | Collected Field Samples | Completeness (%) |
|---|---|---|
| 4 sediment | 4 sediment | 100% |
| 4 surface water | 0 surface water | 0% |
| 54 soil boring | 48 soil boring | 89% |
| 60 groundwater | 55 groundwater | 92% |
| | | |
| Proposed QA/QC Samples | Collected QA/QC Samples | Completeness (%) |
| 1 sediment<br>1 equipment blank | 1 sediment<br>1 equipment blank | 100%<br>100% |
| 2 surface water | 0 surface water | 0% |
| 5 soil borings<br>3 equipment blanks | 5 soil boring (QA only)<br>2 equipment blanks | 100% (QA only)<br>67% |
| 6 groundwater | 4 groundwater (QA only)<br>5 groundwater (QC/prepurge) | 67% (QA only)<br>83% (QC/prepurge) |
| 4 VOC shipments (4 travel blanks) | 4 travel blanks | 100% |



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## 6.0 Conclusion.

An evaluation with regards to the quality of the chemical data collected during the June-July 1997 Preliminary Landfill Investigation (Former Laredo Air Force Base) indicates that no major problems exist which invalidate the reported data. However, a significant number of analytical parameters were analyzed outside their appropriate holding times due to tracking problems and method blank contamination. Any analytes detected in these samples should be considered estimated.

Rex W. Ostrander,
Chief, CIH Section.

Christopher S. Kennedy,
Chemist, CIH Section.



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# APPENDIX A

| Table A-1 Chain of Custody Synopsis<br>Former Webb AFB - Landfill Investigation (June-July 97) | | | Analytical Method | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Date | Matrix Defn | VOCs | Metals | SVOCs | Pest/PCBs | Herb | SWD Report# |
| TB01 | 06/25/97 | TB | 1 | | | | | 16824-1 |
| LF-W30 | 06/25/97 | GW | 1 | 1 | 1 | 1 | | 16824-1 |
| LF-W14 | 06/25/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-1 |
| LF-W35 | 06/25/97 | GW | 1 | 1 | 1 | 1 | | 16824-1 |
| LF-W37 | 06/25/97 | GW | 1 | | | | | 16824-1 |
| LF-W30 | 06/26/97 | GW | | | | | 1 | 16824-1 |
| LF-W35 | 06/26/97 | GW | | | | | 1 | 16824-1 |
| LF-W1 | 06/26/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-1 |
| LF-W3 | 06/26/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-1 |
| LF-W5 | 06/26/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-1 |
| LF-W6 | 06/26/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-1 |
| LF-W2 | 06/26/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-1 |
| LF-W4 | 06/26/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-1 |
| LF-W7 | 06/26/97 | GW | 1 | | | | | 16824-1 |
| LF-W48 | 06/26/97 | GW | 1 | | | | | 16824-1 |
| LF-W34 | 06/26/97 | GW | 1 | | | | | 16824-1 |
| TB02 | 06/27/97 | TB | 1 | | | | | 16824-2 |



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| Table A-1 Chain of Custody Synopsis<br>Former Webb AFB - Landfill Investigation (June-July 97) | | | Analytical Method | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Date | Matrix Defn | VOCs | Metals | SVOCs | Pest/PCBs | Herb | SWD Report# |
| LF-W8 | 06/27/97 | GW | 1 | | | | | 16824-2 |
| LF-W11 | 06/27/97 | GW | 1 | | | | | 16824-2 |
| LF-W15 | 06/27/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-W21 | 06/27/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-W18 | 06/27/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W19 | 06/27/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W22 | 06/27/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W31 | 06/27/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W32 | 06/27/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W27 | 06/28/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W28 | 06/28/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W25 | 06/28/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W26 | 06/28/97 | GW | 1 | 1 | 1 | | | 16824-2 |
| LF-SB19(2.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-SB11(2.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |
| LF-SB11(5.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |
| LF-SB11(8.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |
| LF-SB6(2.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |

| Table A-1 Chain of Custody Synopsis<br>Former Webb AFB - Landfill Investigation (June-July 97) | | | Analytical Method | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Date | Matrix Defn | VOCs | Metals | SVOCs | Pest/PCBs | Herb | SWD Report# |
| LF-SB6(5.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |
| LF-SB8(2.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |
| LF-SB1(2.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-SB1(5.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-SB1(8.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-SB2(2.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-SB2(2.0) QA | 06/28/97 | SL QA | 2 | | | | | 16824-2 |
| LF-SB2(5.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |
| LF-SB2(6.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |
| LF-SB5(2.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | | 16824-2 |
| LF-SB5(5.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-SB5(10.0) | 06/28/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-W10 | 06/29/97 | GW | 1 | 1 | 1 | Missing | 1 | 16824-2 |
| LF-W17 | 06/29/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W16 | 06/29/97 | GW | 1 | 1 | | | | 16824-2 |
| LF-W12 | 06/29/97 | GW | 1 | 1 | | | | 16824-2 |
| DR-SD1 | 06/29/97 | SD | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| DR-SD1 QC | 06/29/97 | SD QC | 1 | 1 | 1 | 1 | 1 | 16824-2 |

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| Table A-1 Chain of Custody Synopsis<br>Former Webb AFB - Landfill Investigation (June-July 97) | | | Analytical Method | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Date | Matrix Defn | VOCs | Metals | SVOCs | Pest/PCBs | Herb | SWD Report# |
| DR-SD1 QA | 06/29/97 | SD QA | 2 | 2 & 3 | 2 | 2 | 3 | 16824-2 |
| DR-SD2 | 06/29/97 | SD | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| DR-SD3 | 06/29/97 | SD | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| DR-SD4 | 06/29/97 | SD | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| DR-SD1-EB | 06/29/97 | SD EB | 1 | 1 | 1 | 1 | 1 | 16824-2 |
| LF-W9 | 06/30/97 | GW | 1 | | | | | 16824-3 |
| LF-W9 QA | 06/30/97 | GW QA | 2 | | | | | 16824-3 |
| LF-W13 | 06/30/97 | GW | 1 | | | | | 16824-3 |
| LF-W13 QA | 06/30/97 | GW QA | 2 | | | | | 16824-3 |
| LF-W20 | 06/30/97 | GW | 1 | 1 | | | | 16824-3 |
| LF-W23 | 06/30/97 | GW | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-W24 | 06/30/97 | GW | 1 | 1 | 1 | | | 16824-3 |
| LF-W24 QA | 06/30/97 | GW QA | 2 | | | | | 16824-3 |
| TB03 | 07/01/97 | TB | 1 | | | | | 16824-3 |
| LF-SB14(2.0) EB | 07/01/97 | SL EB | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB14(2.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB14(5.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB14(6.5) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |

| Table A-1 Chain of Custody Synopsis<br>Former Webb AFB - Landfill Investigation (June-July 97) | | | Analytical Method | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Date | Matrix Defn | VOCs | Metals | SVOCs | Pest/PCBs | Herb | SWD Report# |
| LF-SB24(2.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB24(5.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB24(6.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB28(2.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB28(5.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB28(8.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB35(2.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB35(5.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB35(5.0) QA | 07/01/97 | SL QA | | | 2 | | | 16824-3 |
| LF-SB35(8.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB37(2.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB49(2.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB49(5.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB50(2.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB50(5.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB50(8.0) | 07/01/97 | SL | 1 | 1 | 1 | 1 | 1 | 16824-3 |
| LF-SB50(8.0) QA | 07/01/97 | SL QA | 3 | 3 | | | | 16824-3 |
| TB04 | 07/08/97 | TB | 1 | | | | | 16824 |



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| Table A-1 Chain of Custody Synopsis<br>Former Webb AFB - Landfill Investigation (June-July 97) | | | Analytical Method | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Date | Matrix Defn | VOCs | Metals | SVOCs | Pest/PCBs | Herb | SWD Report# |
| LF-W49 | 07/08/97 | GW | 1 | 1 | | | | 16824 |
| LF-W50 U | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-W50 | 07/08/97 | GW | 1 | 1 | | | | 16824 |
| LF-W51 U | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-W51 | 07/08/97 | GW | 1 | 1 | | | | 16824 |
| LF-W54 U | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-W54 | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-W55 | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-W55 U | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-PW | 07/08/97 | GW | | 1 | | | | 16824 |
| LF-W57 | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-W57 U | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-W59 | 07/08/97 | GW | 1 | | | | | 16824 |
| LF-SB55(2.0) EB | 07/08/97 | SL EB | 1 | 1 | 1 | 1 | 1 | 16824 |
| LF-W58 | 07/09/97 | GW | 1 | | | | | 16824 |
| LF-W56 | 07/09/97 | GW | 1 | | | | | 16824 |
| LF-W52 | 07/09/97 | GW | 1 | | | | | 16824 |
| LF-W53 | 07/09/97 | GW | 1 | | | | | 16824 |

| Table A-1 Chain of Custody Synopsis<br>Former Webb AFB - Landfill Investigation (June-July 97) | | | Analytical Method | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Date | Matrix Defn | VOCs | Metals | SVOCs | Pest/PCBs | Herb | SWD Report# |
| LF-W46 | 07/09/97 | GW | 1 | | | | | 16824 |
| LF-W45 | 07/09/97 | GW | 1 | 1 | | | | 16824 |
| LF-W29 | 07/10/97 | GW | 1 | | | | | 16824 |
| LF-W39 | 07/10/97 | GW | 1 | | | | | 16824 |
| LF-W39 QA | 07/10/97 | GW QA | 2 | | | | | 16824 |
| LF-W36 | 07/10/97 | GW | 1 | | | | | 16824 |
| LF-W42 | 07/10/97 | GW | 1 | | | | | 16824 |
| LF-W38 | 07/10/97 | GW | 1 | | | | | 16824 |
| LF-W43 | 07/10/97 | GW | 1 | | | | | 16824 |
| LF-W47 | 07/10/97 | GW | 1 | | | | | 16824 |
| LF-SB55(2.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB55(5.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB55(7.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB58(2.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB58(5.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB58(6.5) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB47(2.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB47(5.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |



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| Table A-1 Chain of Custody Synopsis<br>Former Webb AFB - Landfill Investigation (June-July 97) | | | Analytical Method | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample ID | Sample Date | Matrix Defn | VOCs | Metals | SVOCs | Pest/PCBs | Herb | SWD Report# |
| LF-SB47(5.0) QA | 7/11/97 | SL QA | | | | | 3 | 168424-4 |
| LF-SB47(7.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB46(2.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | | 168424-4 |
| LF-SB46(5.0) | 7/11/97 | SL | 1 | 1 | | 1 | | 168424-4 |
| LF-SB39(2.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB39(5.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-SB39(5.0) QA | 7/11/97 | SL QA | | | 3 | | | 168424-4 |
| LF-SB36(2.0) | 7/11/97 | SL | 1 | 1 | 1 | 1 | 1 | 168424-4 |
| LF-DECON | 7/11/97 | GW | 1 | 1 | 1 | 1 | 1 | 168424-4 |

Key

| | |
|---|---|
| 1 | Intertek Testing Services (ITS) |
| 2 | USACE Southwestern Division Laboratory (SWD) |
| 3 | Environmental Chemical Corporation (ECC) |
| GW | Groundwater matrix |
| SL | Soil matrix |
| SD | Sediment matrix |
| TB | Travel blank |
| QA | Quality assurance duplicate |
| QC | Quality control duplicate |
| EB | Equipment blank or rinsate blank |
| Missing | All or specific chemical data were found to be missing from the submittal |

# APPENDIX B

| Table B-1-1 - Field Comparability<br>Volatile Organic Compounds (VOC) | | | |
|---|---|---|---|
| Compound | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB2(2.0) | NA | LF-SB2(2.0) QA |
| acetone | <22.7 | | <60 |
| allyl chloride | NR | | NR |
| benzene | <5.66 | | <2.0 |
| benzyl chloride | NR | | NR |
| bromochloromethane | <5.66 | | <4.0 |
| bromoform | <5.66 | | <2.0 |
| bromomethane | <5.66 | | <4.0 |
| carbon tetrachloride | <5.66 | | <2.0 |
| chlorobenzene | <5.66 | | 38 |
| chlorodibromomethane | <5.66 | | <2.0 |
| chloroethane | <5.66 | | <6.0 |
| 2-chloroethyl vinyl ether | <11.3 | | NR |
| chloroform | <5.66 | | <2.0 |
| chloromethane | <5.66 | | <6.0 |
| chloroprene | NR | | NR |
| 1,2-dibromoethane | <5.66 | | <2.0 |
| dibromomethane | <5.66 | | <2.0 |
| 1,2-dichlorobenzene | <5.66 | | <2.0 |
| 1,3-dichlorobenzene | <5.66 | | <2.0 |
| 1,4-dichlorobenzene | <5.66 | | 180 |
| cis-1,4-dichloro-2-butene | NR | | NR |
| dichlorodifluoromethane | NR | | <4.0 |
| 1,1-dichloroethane | <5.66 | | <2.0 |
| 1,2-dichloroethane | <5.66 | | <2.0 |
| 1,1-dichloroethene | <5.66 | | <2.0 |
| cis-1,2-dichloroethene | <5.66 | | <2.0 |
| trans-1,2-dichloroethene | <5.66 | | <4.0 |
| 1,2-dichloroethene (total) | NA | | NA |
| 1,2-dichloropropane | <5.66 | | <2.0 |
| cis-1,3-dichloropropene | <5.66 | | NR |
| trans-1,3-dichloropropene | <5.66 | | NR |
| 1,2,3,4-diepoxybutane | NR | | NR |
| diethyl ether | NR | | NR |

| Table B-1-1 - Field Comparability<br>Volatile Organic Compounds (VOC) | | | |
|---|---|---|---|
| Compound | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB2(2.0) | NA | LF-SB2(2.0) QA |
| ethylbenzene | <5.66 | | 280 |
| ethyl methacrylate | NR | | NR |
| napthalene | NR | | 38 |
| nitrobenzene | NR | | NR |
| 2-nitropropane | NR | | NR |
| n-proplamine | NR | | NR |
| styrene | <5.66 | | <2.0 |
| 1,1,1,2-tetrachloroethane | <5.66 | | <2.0 |
| 1,1,2,2-tetrachloroethane | <5.66 | | <4.0 |
| tetrachloroethene | <5.66 | | <2.0 |
| toluene | <5.66 | | 85 |
| 1,2,4-trichlorobenzene | <5.66 | | <2.0 |
| 1,1,1-trichloroethane | <5.66 | | <2.0 |
| 1,1,2-trichloroethane | <5.66 | | <2.0 |
| trichloroethene | <5.66 | | <2.0 |
| trichlorofluoromethane | <5.66 | | <2.0 |
| 1,2,3-trichloropropane | <5.66 | | <4.0 |
| vinyl acetate | <56.6 | | NR |
| vinyl chloride | <2.27 | | <4.0 |
| o-xylene | <5.66 | | 410 |
| m-xylene | <5.66 | | 1100 |
| p-xylene | <5.66 | | |
| xylenes (total) | NA | | NA |
| Additional Analyte Information | | | |
| n-butyl benzene | NR | | 21 |
| sec-butyl benzene | NR | | 12 |
| tert-butyl benzene | NR | | 19 |
| isopropyl benzene | NR | | 33 |
| n-propyl benzene | NR | | 31 |
| 1,2,4-trimethyl benzene | NR | | 160 |
| 1,3,5-trimethyl benzene | NR | | 55 |
| undecane (TIC) | 19 | | 36 |

| Table B-2-1 - Field Comparability<br>Volatile Organic Compounds (VOC) | | | |
|---|---|---|---|
| Compound | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| acetone | <28.3 | <27.4 | <30 |
| allyl chloride | NR | NR | NR |
| benzene | <7.08 | <6.85 | <1.0 |
| benzyl chloride | NR | NR | NR |
| bromochloromethane | <7.08 | <6.85 | <1.0 |
| bromoform | <7.08 | <6.85 | <1.0 |
| bromomethane | <7.08 | <6.85 | <2.0 |
| carbon tetrachloride | <7.08 | <6.85 | <1.0 |
| chlorobenzene | <7.08 | <6.85 | <1.0 |
| chlorodibromomethane | <7.08 | <6.85 | <1.0 |
| chloroethane | <7.08 | <6.85 | <3.0 |
| 2-chloroethyl vinyl ether | <14.2 | <13.7 | NR |
| chloroform | <7.08 | <6.85 | <1.0 |
| chloromethane | <7.08 | <6.85 | <3.0 |
| chloroprene | NR | NR | NR |
| 1,2-dibromoethane | <7.08 | <6.85 | <1.0 |
| dibromomethane | <7.08 | <6.85 | <1.0 |
| 1,2-dichlorobenzene | <7.08 | <6.85 | <1.0 |
| 1,3-dichlorobenzene | <7.08 | <6.85 | <1.0 |
| 1,4-dichlorobenzene | <7.08 | <6.85 | <1.0 |
| cis-1,4-dichloro-2-butene | NR | NR | NR |
| dichlorodifluoromethane | NR | NR | <2.0 |
| 1,1-dichloroethane | <7.08 | <6.85 | <1.0 |
| 1,2-dichloroethane | <7.08 | <6.85 | <1.0 |
| 1,1-dichloroethene | <7.08 | <6.85 | <1.0 |
| cis-1,2-dichloroethene | <7.08 | <6.85 | <1.0 |
| trans-1,2-dichloroethene | <7.08 | <6.85 | <2.0 |
| 1,2-dichloroethene (total) | NA | NA | NA |
| 1,2-dichloropropane | <7.08 | <6.85 | <1.0 |
| cis-1,3-dichloropropene | <7.08 | <6.85 | NR |
| trans-1,3-dichloropropene | <7.08 | <6.85 | NR |
| 1,2,3,4-diepoxybutane | NR | NR | NR |
| diethyl ether | NR | NR | NR |
| ethylbenzene | <7.08 | <6.85 | <1.0 |
| ethyl methacrylate | NR | NR | NR |

| Table B-2-1 - Field Comparability<br>Volatile Organic Compounds (VOC) | | | |
|---|---|---|---|
| Compound | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| napthalene | NR | NR | <1.0 |
| nitrobenzene | NR | NR | NR |
| 2-nitropropane | NR | NR | NR |
| n-proplamine | NR | NR | NR |
| styrene | <7.08 | <6.85 | <1.0 |
| 1,1,1,2-tetrachloroethane | <7.08 | <6.85 | <1.0 |
| 1,1,2,2-tetrachloroethane | <7.08 | <6.85 | <2.0 |
| tetrachloroethene | <7.08 | <6.85 | <1.0 |
| toluene | <7.08 | <6.85 | <2.0 |
| 1,2,4-trichlorobenzene | <7.08 | <6.85 | <1.0 |
| 1,1,1-trichloroethane | <7.08 | <6.85 | <1.0 |
| 1,1,2-trichloroethane | <7.08 | <6.85 | <1.0 |
| trichloroethene | <7.08 | <6.85 | <1.0 |
| trichlorofluoromethane | <7.08 | <6.85 | <1.0 |
| 1,2,3-trichloropropane | <7.08 | <6.85 | <2.0 |
| vinyl acetate | <70.8 | <68.5 | NR |
| vinyl chloride | <2.83 | <2.74 | <2.0 |
| o-xylene | <7.08 | <6.85 | <1.0 |
| m-xylene | <7.08 | <6.85 | <1.0 |
| p-xylene | <7.08 | <6.85 | <1.0 |
| xylenes (total) | NA | NA | NA |
| | | | |

| Table B-2-2 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| acenaphthene | <467 | <452 | <400 |
| acenaphthylene | <467 | <452 | NR |
| acetophenone | NR | NR | NR |
| 2-acetylaminofluorene | NR | NR | NR |
| 1-acetyl-2-thiourea | NR | NR | NR |
| aldrin | NR | NR | NR |
| 2-aminoanthraquinone | NR | NR | NR |
| aminoazobenzene | NR | NR | NR |
| 4-aminobiphenyl | NR | NR | NR |
| 3-amino-9-ethylcarbazole | NR | NR | NR |
| anilazine | NR | NR | NR |
| aniline | NR | NR | NR |
| o-anisidine | NR | NR | NR |
| anthracene | <467 | <452 | <400 |
| benzoic acid | <1130 | <1100 | NR |
| benz(a)anthracene | <467 | <452 | <400 |
| benzo(b)fluoranthene | <467 | <452 | <300 |
| benzo(k)fluoranthene | <467 | <452 | <400 |
| benzo(g,h,i)perylene | <467 | <452 | <400 |
| benzo(a)pyrene | <467 | <452 | <400 |
| benzyl alcohol | <921 | <890 | NR |
| α-BHC | NR | NR | NR |
| β-BHC | NR | NR | NR |
| δ-BHC | NR | NR | NR |
| Y-BHC | NR | NR | NR |
| bis(2-chloroethoxy)methane | <467 | <452 | <500 |
| bis(2-chloroethyl)ether | <467 | <452 | <400 |
| bis(2-chloroisopropyl)ether | <467 | <452 | <400 |
| bis(2-ethylhexy)phthelate | <467 | <452 | <1000 |



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| Table B-2-2 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| 4-bromophenyl phenyl ether | <467 | <452 | <400 |
| bromoxynil | NR | NR | NR |
| butyl benzyl phthalate | <467 | <452 | <500 |
| 2-sec-butyl-4,6-dinitrophenol | NR | NR | NR |
| carbaryl | NR | NR | NR |
| carbonfuran | NR | NR | NR |
| carbophenothion | NR | NR | NR |
| chlorodane | NR | NR | NR |
| chlorfenvinphos | NR | NR | NR |
| 4-chloroaniline | <467 | <452 | <600 |
| chlorobenzilate | NR | NR | NR |
| 5-chloro-2-methylaniline | NR | NR | NR |
| 4-chloro-3-methylphenol | <921 | <890 | <1000 |
| 3-(chloromethyl)pyridine hydrochloride | NR | NR | NR |
| 1-chloronaphthalene | <467 | <452 | NR |
| 2-chloronapthalene | <467 | <452 | <500 |
| 2-chlorophenol | <467 | <452 | <400 |
| 4-chloro-1,2-phenylenediamine | NR | NR | NR |
| 4-chloro-1,3-phenylenediamine | NR | NR | NR |
| 4-chlorophenyl phenyl ether | <467 | <452 | <400 |
| chrysene | <467 | <452 | <400 |
| coumaphos | NR | NR | NR |
| p-cresidine | NR | NR | NR |
| crotoxyphos | NR | NR | NR |
| 2-cyclohexyl-4,6-dinitro-phenol | NR | NR | NR |
| 4,4'-DDD | NR | NR | NR |
| 4,4'-DDE | NR | NR | NR |
| 4,4'-DDT | NR | NR | NR |
| demeton-O | NR | NR | NR |



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| Table B-2-2 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| demeton-S | NR | NR | NR |
| diallate (cis or trans) | NR | NR | NR |
| dibenz(a,j)acridine | NR | NR | NR |
| dibenz(a,h)anthracene | <467 | <452 | <400 |
| dibenzofuran | <467 | <452 | <400 |
| 1,2-dibromo-3-chloropropane | NR | NR | NR |
| di-n-butyl phthalate | <467 | <452 | <2000 |
| 1,2-dichlorobenzene | <467 | <452 | <200 |
| 1,3-dichlorobenzene | <467 | <452 | <400 |
| 1,4-dicholorbenzene | <467 | <452 | <300 |
| 3,3'-dichlorobenzidine | <467 | <452 | NR |
| 2,4-dichlorophenol | <467 | <452 | <1000 |
| 2,6-dichlorophenol | NR | NR | NR |
| dichlorovos | NR | NR | NR |
| dicrotophos | NR | NR | NR |
| dieldrin | NR | NR | NR |
| diethyl phthalate | <467 | <452 | <400 |
| 3,3'-dimethoxybenzidine | NR | NR | NR |
| dimethylaminoazobenzene-7,12-dimethylbenz(a)anthracene | NR | NR | NR |
| 3,3'-dimethylbenzidine | NR | NR | <400 |
| 2,4-dimethylphenol | <467 | <452 | <300 |
| dimethyl phthalate | <467 | <452 | <400 |
| 1,2-dinitrobenzene | NR | NR | NR |
| 1,3-dinitrobenzene | NR | NR | NR |
| 4,6-dinitro-2-methylphenol | <2340 | <2260 | <1000 |
| 2,4-dinitrophenol | <2340 | <2260 | <3000 |
| 2,4-dinitrotoluene | <467 | <452 | <600 |
| 2,6-dinitrotoluene | <467 | <452 | <600 |
| dinoseb | NR | NR | NR |

| Table B-2-2 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| diphenylamine | NR | NR | NR |
| 5,5-diphenylhydantoin | NR | NR | NR |
| 1,2-diphenylhydrazine | NR | NR | NR |
| di-n-octyl phthalate | <467 | <452 | <400 |
| disulfoton | NR | NR | NR |
| endosulfan I | NR | NR | NR |
| endosulfan II | NR | NR | NR |
| endosulfan sulfate | NR | NR | NR |
| endrin | NR | NR | NR |
| endrin aldehyde | NR | NR | NR |
| endrin ketone | NR | NR | NR |
| EPN | NR | NR | NR |
| ethion | NR | NR | NR |
| ethyl methanesulfonate | NR | NR | NR |
| ethyl parathion | NR | NR | NR |
| famphur | NR | NR | NR |
| fensulfothion | NR | NR | NR |
| fenthion | NR | NR | NR |
| fluchloralin | NR | NR | NR |
| fluroanthene | <467 | <452 | <400 |
| fluorene | <467 | <452 | <400 |
| heptchlor | NR | NR | NR |
| heptchlor epoxide | NR | NR | NR |
| hexachlorobenzene | <467 | <452 | <500 |
| hexachlorobutadiene | <467 | <452 | <1000 |
| hexachlorocyclopentadiene | <467 | <452 | <400 |
| hexachloroethane | <467 | <452 | <400 |
| hexachloropropene | NR | NR | NR |
| hexamethylphosphoramide | NR | NR | NR |



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| Table B-2-2 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| indeno(1,2,3-cd)pyrene | <467 | <452 | <400 |
| isodrin | NR | NR | NR |
| isophorone | <467 | <452 | NR |
| kepone | NR | NR | NR |
| leptophos | NR | NR | NR |
| mestranol | NR | NR | NR |
| methapyrilene | NR | NR | NR |
| methoxychlor | NR | NR | NR |
| 3-methylcholanthrene | NR | NR | NR |
| 4,4'-methylenebis(N,N-dimethylaniline) | NR | NR | NR |
| methyl methanesulfonate | NR | NR | NR |
| 2-methylnaphthalene | <467 | <452 | NR |
| 2-methyl-5-nitroaniline | NR | NR | NR |
| methyl parathion | NR | NR | NR |
| 2-methylphenol | <467 | <452 | <400 |
| 3-methylphenol | <467 | <452 | NR |
| 4-methylphenol | <467 | <452 | NR |
| 2-methylpyridine | NR | NR | NR |
| mevinphos | NR | NR | NR |
| mirex | NR | NR | NR |
| naled | NR | NR | NR |
| naphthalene | <467 | <452 | <1000 |
| 1,4-naphthoquinone | NR | NR | NR |
| 2-naphthylamine | NR | NR | NR |
| 5-nitroacenaphthene | NR | NR | NR |
| 2-nitroaniline | <2340 | <2260 | <500 |
| 3-nitroaniline | <2340 | <2260 | <400 |
| 4-nitroaniline | <2340 | <2260 | NR |
| 5-nitro-o-anisidine | NR | NR | NR |

| Table B-2-2 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| nitrobenzene | <467 | <452 | <1000 |
| 4-nitrobiphenyl | NR | NR | NR |
| nitrofen | NR | NR | NR |
| 2-nitrophenol | <467 | <452 | <1000 |
| 4-nitrophenol | <1130 | <2260 | <1000 |
| 5-nitro-o-toluidine | NR | NR | NR |
| nitroquinoline-1-oxide | NR | NR | NR |
| N-nitrosodibutylamine | NR | NR | NR |
| N-nitrosodibutylamine | NR | NR | NR |
| N-nitrosodiethylamine | NR | NR | NR |
| N-nitrosodimethylamine | NR | NR | NR |
| N-nitrosodiphenylamine | <467 | <452 | <300 |
| N-nitrosodi-n-propylamine | <467 | <452 | <400 |
| N-nitrosopiperidine | NR | NR | NR |
| N-nitrosopyrrolidine | NR | NR | NR |
| 4,4'-oxydianiline | NR | NR | NR |
| parathion | NR | NR | NR |
| pentachlorobenzene | NR | NR | NR |
| pentachloronitrobenzene | NR | NR | NR |
| pentachlorophenol | <2340 | <2260 | <500 |
| phenacetin | NR | NR | NR |
| phenanthrene | <467 | <452 | <400 |
| phenobarbital | NR | NR | NR |
| 1,4-phenylenediamine | NR | NR | NR |
| phorate | NR | NR | NR |
| piperonyl sulfoxide | NR | NR | NR |
| pronamide | NR | NR | NR |
| pyrene | <467 | <452 | <1000 |
| safrole | NR | NR | NR |



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| Table B-2-2 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| sulfallate | NR | NR | NR |
| terbufos | NR | NR | NR |
| 1,2,4,5-tetrachlorobenzene | NR | NR | NR |
| 2,3,4,6-tetrachlorophenol | NR | NR | NR |
| tetrachlorvinphos | NR | NR | NR |
| tetraethyl dithiopyrophosphate | NR | NR | NR |
| tetraethyl pyrophosphate | NR | NR | NR |
| thioinazine | NR | NR | NR |
| thiophenol (benzenethiol) | NR | NR | NR |
| o-toluidine | NR | NR | NR |
| toxaphene | NR | NR | NR |
| 1,2,4-trichlorobenzene | <467 | <452 | <1000 |
| 2,4,5-trichlorophenol | <2340 | <2260 | <600 |
| 2,4,6-trichlorophenol | <467 | <452 | <500 |
| trifluralin | NR | NR | NR |
| 2,4,5-trimethylaniline | NR | NR | NR |
| 1,3,5-trinitrobenzene | NR | NR | NR |
| tris(2,3-dibromopropyl)phosphate | NR | NR | NR |
| tri-p-tolyl phosphate | NR | NR | NR |
| O,O,O-triethyl phosphorothioate | NR | NR | NR |
| | | | |
| | | | |

| Table B-2-3 - Field Comparability<br>Metals | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (mg/kg) | QC Sample (mg/kg) | QA Sample (mg/kg) |
| | DR-SD1 | DR-SD-1 QC | DR-SD-1 QA |
| Aluminum | 4580 | 6550 | 7470 |
| Antimony | <7.08 | <6.85 | 0.79 |
| Arsenic | 2.02 | 2.37 | 2.2 |
| Barium | 50.9 | 62.3 | 101 |
| Beryllium | <0.42 | <0.41 | 0.42 |
| Bismuth | NR | | |
| Boron | NR | | |
| Cadmium | <0.71 | <0.68 | <1.4 |
| Calcium | 13900 | 15700 | 27700 |
| Chromium | 4.02 | 5.86 | 6.4 |
| Cobalt | 2.89 | 2.96 | 5.0 |
| Copper | 3.49 | 4.66 | 5.9 |
| Iron | 5860 | 7480 | 10700 |
| Lead | 7.54 | 10.8 | 48.3 |
| Lithium | | | |
| Magnesium | 1500 | 1990 | 2450 |
| Manganese | 57.6 | 69.9 | 97.0 |
| Mercury | <0.017 | <0.164 | 0.020 J |
| Molybednum | | | |
| Nickel | 4.41 | 5.38 | 7.0 |
| Phosphorus | | | |
| Potassium | 1220 | 1650 | 2010 |
| Selenium | <1.42 | <1.37 | 0.36 |
| Silicon | | | |
| Silver | <0.71 | <0.68 | <1.4 |
| Sodium | 443 | 473 | 673 |
| Sulfur | | | |
| Tellerium | | | |
| Thallium | <1.4 | <1.4 | <0.2 |
| Tin | 1.37 | 1.47 | <13.9 |
| Titanium | | | |
| Tungsten | | | |
| Uranium | | | |

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| Table B-2-3 - Field Comparability Metals | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (mg/kg) | QC Sample (mg/kg) | QA Sample (mg/kg) |
| | DR-SD1 | DR-SD-1 QC | DR-SD-1 QA |
| Vanadium | 9.44 | 12.5 | 16.2 |
| Yttrium | | | |
| Zinc | 23.6 | 29.5 | 46.9 |
| | | | |
| | | | |

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Table B-2-4 - Field Comparability
Pesticides (Pest) and Polychlorinated Biphenyls (PCBs)

| Compound | Results | | |
|---|---|---|---|
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| aldrin | <18.8 | <70.4 | <2 |
| α-BHC | <14.1 | <52.8 | <2 |
| β-BHC | <28.3 | <106 | <2 |
| δ-BHC | <42.4 | <158 | <2 |
| Y-BHC (lindane) | <18.8 | <70.4 | <2 |
| chlordane | 783 | 1110 | 2100 |
| 4,4'-DDD | <51.8 | <193 | 37 |
| 4,4'-DDE | <18.8 | <70.4 | 91 |
| 4,4'-DDT | <56.5 | <211 | 62 |
| dieldrin | <9.42 | <35.2 | 130 |
| endolsulfan I | <65.9 | <246 | <1 |
| endolsulfan II | <18.8 | <70.4 | <2 |
| endosulfan sulfate | <311 | <1160 | <7 |
| endrin | <28.3 | <106 | <2 |
| endrin aldehyde | <108 | <405 | <2 |
| heptachlor | <14.1 | <52.8 | <2 |
| heptachlor epoxide | <391 | <1460 | <2 |
| methoxychlor | <829 | <3100 | <5 |
| toxaphene | <1130 | <4220 | <20 |
| PCB-1016 | <306 | <1140 | <20 |
| PCB-1221 | <306 | <1140 | <20 |
| PCB-1232 | <306 | <1140 | <20 |
| PCB-1242 | <306 | <1140 | <20 |
| PCB-1248 | <306 | <1140 | <20 |
| PCB-1254 | <306 | <1140 | <20 |
| PCB-1260 | <306 | <1140 | <20 |
| | | | |
| | | | |

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| Table B-2-5 - Field Comparability<br>Herbicides (Herb) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | DR-SD1 | DR-SD1 QC | DR-SD1 QA |
| 2,4-D | <212 | <137 | <56 |
| 2,4-DB | <212 | <137 | <56 |
| 2,4,5-T | <21.5 | <13.7 | <56 |
| 2,4,5-TP (silvex) | <21.2 | <13.7 | <56 |
| dalapon | <850 | <548 | NR |
| dicamba | <21.2 | <13.7 | <56 |
| dichlorprop | <212 | <137 | NR |
| dinoseb | <85.0 | <54.8 | NR |
| MCPA | <85000 | <54800 | NR |
| MCPP | <85000 | <54800 | NR |
| | | | |
| | | | |

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| Table B-3-1 - Field Comparability<br>Volatile Organic Compounds (VOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/L) | QC Sample (ug/L) | QA Sample (ug/L) |
| | LF-W9 | NA | LF-W9 QA |
| acetone | <20.0 | | <6.0 |
| allyl chloride | NR | | NR |
| benzene | <5.0 | | <0.1 |
| benzyl chloride | NR | | NR |
| bromochloromethane | <5.0 | | <0.4 |
| bromoform | <5.0 | | <0.3 |
| bromomethane | <5.0 | | <0.4 |
| carbon tetrachloride | <5.0 | | <0.2 |
| chlorobenzene | <5.0 | | <0.2 |
| chlorodibromomethane | <5.0 | | <0.4 |
| chloroethane | <5.0 | | <0.5 |
| 2-chloroethyl vinyl ether | <10.0 | | NR |
| chloroform | <5.0 | | <0.2 |
| chloromethane | <5.0 | | <0.4 |
| chloroprene | NR | | NR |
| 1,2-dibromoethane | <5.0 | | <0.3 |
| dibromoethane | <5.0 | | <0.3 |
| 1,2-dichlorobenzene | <5.0 | | <0.2 |
| 1,3-dichlorobenzene | <5.0 | | <0.2 |
| 1,4-dichlorobenzene | <5.0 | | <0.2 |
| cis-1,4-dichloro-2-butene | NR | | NR |
| dichlorodifluoromethane | NR | | <0.4 |
| 1,1-dichloroethane | <5.0 | | <0.2 |
| 1,2-dichloroethane | <5.0 | | <0.3 |
| 1,1-dichloroethene | <5.0 | | <0.4 |
| cis-1,2-dichloroethene | <5.0 | | <0.3 |
| trans-1,2-dichloroethene | <5.0 | | <0.3 |
| 1,2-dichloroethene (total) | NA | | NA |
| 1,2-dichloropropane | <5.0 | | <0.2 |



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| Table B-3-1 - Field Comparability<br>Volatile Organic Compounds (VOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/L) | QC Sample (ug/L) | QA Sample (ug/L) |
| | LF-W9 | NA | LF-W9 QA |
| cis-1,3-dichloropropene | <5.0 | | NR |
| trans-1,3-dichloropropene | <5.0 | | NR |
| 1,2,3,4-diepoxybutane | NR | | NR |
| diethyl ether | NR | | NR |
| ethylbenzene | <5.0 | | <0.2 |
| ethyl methacrylate | NR | | NR |
| methylene chloride | <5.0 | | <0.4 |
| napthalene | NR | | <0.3 |
| nitrobenzene | NR | | NR |
| 2-nitropropane | NR | | NR |
| n-proplamine | NR | | NR |
| styrene | <5.0 | | <0.2 |
| 1,1,1,2-tetrachloroethane | <5.0 | | <0.2 |
| 1,1,2,2-tetrachloroethane | <5.0 | | <0.3 |
| tetrachloroethene | <5.0 | | <0.2 |
| toluene | <5.0 | | <0.2 |
| 1,2,4-trichlorobenzene | <5.0 | | <0.2 |
| 1,1,1-trichloroethane | <5.0 | | <0.2 |
| 1,1,2-trichloroethane | <5.0 | | <0.4 |
| trichloroethene | <5.0 | | <0.2 |
| trichlorofluoromethane | <5.0 | | <0.3 |
| 1,2,3-trichloropropane | <5.0 | | <0.3 |
| vinyl acetate | <50.0 | | NR |
| vinyl chloride | <2.0 | | <0.2 |
| o-xylene | <5.0 | | <0.3 |
| m-xylene | <5.0 | | <0.5 |
| p-xylene | <5.0 | | |
| xylenes (total) | NA | | NA |
| | | | |

| Table B-4-1 - Field Comparability<br>Volatile Organic Compounds (VOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/L) | QC Sample (ug/L) | QA Sample (ug/L) |
| | LF-W13 | NA | LF-W13 QA |
| acetone | <20.0 | | <6.0 |
| allyl chloride | NR | | NR |
| benzene | <5.0 | | <0.1 |
| benzyl chloride | NR | | NR |
| bromochloromethane | <5.0 | | <0.4 |
| bromoform | <5.0 | | <0.3 |
| bromomethane | <5.0 | | <0.4 |
| carbon tetrachloride | <5.0 | | <0.2 |
| chlorobenzene | <5.0 | | <0.2 |
| chlorodibromomethane | <5.0 | | <0.4 |
| chloroethane | <5.0 | | <0.5 |
| 2-chloroethyl vinyl ether | <10.0 | | NR |
| chloroform | <5.0 | | <0.2 |
| chloromethane | <5.0 | | <0.4 |
| chloroprene | NR | | NR |
| 1,2-dibromoethane | <5.0 | | <0.3 |
| dibromoethane | <5.0 | | <0.3 |
| 1,2-dichlorobenzene | <5.0 | | <0.2 |
| 1,3-dichlorobenzene | <5.0 | | <0.2 |
| 1,4-dichlorobenzene | <5.0 | | <0.2 |
| cis-1,4-dichloro-2-butene | NR | | NR |
| dichlorodifluoromethane | NR | | <0.4 |
| 1,1-dichloroethane | <5.0 | | <0.2 |
| 1,2-dichloroethane | <5.0 | | <0.3 |
| 1,1-dichloroethene | <5.0 | | <0.4 |
| cis-1,2-dichloroethene | <5.0 | | <0.3 |
| trans-1,2-dichloroethene | <5.0 | | <0.3 |
| 1,2-dichloroethene (total) | NA | | NA |
| 1,2-dichloropropane | <5.0 | | <0.2 |
| cis-1,3-dichloropropene | <5.0 | | NR |
| trans-1,3-dichloropropene | <5.0 | | NR |
| 1,2,3,4-diepoxybutane | NR | | NR |
| diethyl ether | NR | | NR |
| ethylbenzene | <5.0 | | <0.2 |

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| Table B-4-1 - Field Comparability<br>Volatile Organic Compounds (VOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/L) | QC Sample (ug/L) | QA Sample (ug/L) |
| | LF-W13 | NA | LF-W13 QA |
| ethyl methacrylate | NR | | NR |
| methylene chloride | <5.0 | | <0.4 |
| napthalene | NR | | <0.3 |
| nitrobenzene | NR | | NR |
| 2-nitropropane | NR | | NR |
| n-proplamine | NR | | NR |
| styrene | <5.0 | | <0.2 |
| 1,1,1,2-tetrachloroethane | <5.0 | | <0.2 |
| 1,1,2,2-tetrachloroethane | <5.0 | | <0.3 |
| tetrachloroethene | <5.0 | | <0.2 |
| toluene | <5.0 | | <0.2 |
| 1,2,4-trichlorobenzene | <5.0 | | <0.2 |
| 1,1,1-trichloroethane | <5.0 | | <0.2 |
| 1,1,2-trichloroethane | <5.0 | | <0.4 |
| trichloroethene | <5.0 | | <0.2 |
| trichlorofluoromethane | <5.0 | | <0.3 |
| 1,2,3-trichloropropane | <5.0 | | <0.3 |
| vinyl acetate | <50.0 | | NR |
| vinyl chloride | <2.0 | | <0.2 |
| o-xylene | <5.0 | | <0.3 |
| m-xylene | <5.0 | | <0.5 |
| p-xylene | <5.0 | | |
| xylenes (total) | NA | | NA |
| | | | |

Table B-5-1 - Field Comparability
Volatile Organic Compounds (VOCs)

| Compounds | Results | | |
|---|---|---|---|
| | Field Sample (ug/L) | QC Sample (ug/L) | QA Sample (ug/L) |
| | LF-W24 | NA | LF-W24 QA |
| acetone | <20.0 | | <6.0 |
| allyl chloride | NR | | NR |
| benzene | <5.0 | | <0.1 |
| benzyl chloride | NR | | NR |
| bromochloromethane | <5.0 | | <0.4 |
| bromoform | <5.0 | | <0.3 |
| bromomethane | <5.0 | | <0.4 |
| carbon tetrachloride | <5.0 | | <0.2 |
| chlorobenzene | <5.0 | | <0.2 |
| chlorodibromomethane | <5.0 | | <0.4 |
| chloroethane | <5.0 | | <0.5 |
| 2-chloroethyl vinyl ether | <10.0 | | NR |
| chloroform | <5.0 | | <0.2 |
| chloromethane | <5.0 | | <0.4 |
| chloroprene | NR | | NR |
| 1,2-dibromoethane | <5.0 | | <0.3 |
| dibromoethane | <5.0 | | <0.3 |
| 1,2-dichlorobenzene | <5.0 | | <0.2 |
| 1,3-dichlorobenzene | <5.0 | | <0.2 |
| 1,4-dichlorobenzene | <5.0 | | <0.2 |
| cis-1,4-dichloro-2-butene | NR | | NR |
| dichlorodifluoromethane | NR | | <0.4 |
| 1,1-dichloroethane | <5.0 | | <0.2 |
| 1,2-dichloroethane | <5.0 | | <0.3 |
| 1,1-dichloroethene | <5.0 | | <0.4 |
| cis-1,2-dichloroethene | <5.0 | | <0.3 |
| trans-1,2-dichloroethene | <5.0 | | <0.3 |
| 1,2-dichloroethene (total) | NA | | NA |
| 1,2-dichloropropane | <5.0 | | <0.2 |
| cis-1,3-dichloropropene | <5.0 | | NR |
| trans-1,3-dichloropropene | <5.0 | | NR |
| 1,2,3,4-diepoxybutane | NR | | NR |
| diethyl ether | NR | | NR |

| Table B-5-1 - Field Comparability<br>Volatile Organic Compounds (VOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/L) | QC Sample (ug/L) | QA Sample (ug/L) |
| | LF-W24 | NA | LF-W24 QA |
| ethylbenzene | <5.0 | | <0.2 |
| ethyl methacrylate | NR | | NR |
| methylene chloride | <5.0 | | <0.4 |
| napthalene | NR | | <0.3 |
| nitrobenzene | NR | | NR |
| 2-nitropropane | NR | | NR |
| n-proplamine | NR | | NR |
| styrene | <5.0 | | <0.2 |
| 1,1,1,2-tetrachloroethane | <5.0 | | <0.2 |
| 1,1,2,2-tetrachloroethane | <5.0 | | <0.3 |
| tetrachloroethene | <5.0 | | <0.2 |
| toluene | <5.0 | | <0.2 |
| 1,2,4-trichlorobenzene | <5.0 | | <0.2 |
| 1,1,1-trichloroethane | <5.0 | | <0.2 |
| 1,1,2-trichloroethane | <5.0 | | <0.4 |
| trichloroethene | <5.0 | | <0.2 |
| trichlorofluoromethane | <5.0 | | <0.3 |
| 1,2,3-trichloropropane | <5.0 | | <0.3 |
| vinyl acetate | <50.0 | | NR |
| vinyl chloride | <2.0 | | <0.2 |
| o-xylene | <5.0 | | <0.3 |
| m-xylene | <5.0 | | <0.5 |
| p-xylene | <5.0 | | |
| xylenes (total) | NA | | NA |
| | | | |

| Table B-6-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB35(5.0) | NA | LF-SB35(5.0) QA |
| acenaphthene | <405 | | <200 |
| acenaphthylene | <405 | | NR |
| acetophenone | NR | | NR |
| 2-acetylaminofluorene | NR | | NR |
| 1-acetyl-2-thiourea | NR | | NR |
| aldrin | NR | | NR |
| 2-aminoanthraquinone | NR | | NR |
| aminoazobenzene | NR | | NR |
| 4-aminobiphenyl | NR | | NR |
| 3-amino-9-ethylcarbazole | NR | | NR |
| anilazine | NR | | NR |
| aniline | NR | | NR |
| o-anisidine | NR | | NR |
| anthracene | <405 | | <200 |
| benzoic acid | <982 | | NR |
| benz(a)anthracene | <405 | | <200 |
| benzo(b)fluoranthene | <405 | | <200 |
| benzo(k)fluoranthene | <405 | | <200 |
| benzo(g,h,i)perylene | <405 | | <200 |
| benzo(a)pyrene | <405 | | <200 |
| benzyl alcohol | <798 | | NR |
| α-BHC | NR | | NR |
| β-BHC | NR | | NR |
| δ-BHC | NR | | NR |
| γ-BHC | NR | | NR |
| bis(2-chloroethoxy)methane | <405 | | <300 |
| bis(2-chloroethyl)ether | <405 | | <100 |
| bis(2-chloroisopropyl)ether | <405 | | <200 |
| bis(2-ethylhexyl)phthalate | <405 | | <600 |

| Table B-6-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB35(5.0) | NA | LF-SB35(5.0) QA |
| 4-bromophenyl phenyl ether | <405 | | <200 |
| bromoxynil | NR | | NR |
| butyl benzyl phthalate | <405 | | <200 |
| 2-sec-butyl-4,6-dinitrophenol | NR | | NR |
| carbaryl | NR | | NR |
| carbonfuran | NR | | NR |
| carbophenothion | NR | | NR |
| chlorodane | NR | | NR |
| chlorfenvinphos | NR | | NR |
| 4-chloroaniline | <405 | | <300 |
| chlorobenzilate | NR | | NR |
| 5-chloro-2-methylaniline | NR | | NR |
| 4-chloro-3-methylphenol | <798 | | <600 |
| 3-(chloromethyl)pyridine hydrochloride | NR | | NR |
| 1-chloronaphthalene | <405 | | NR |
| 2-chloronapthalene | <405 | | <200 |
| 2-chlorophenol | <405 | | <200 |
| 4-chloro-1,2-phenylenediamine | NR | | NR |
| 4-chloro-1,3-phenylenediamine | NR | | NR |
| 4-chlorophenyl phenyl ether | <405 | | <300 |
| chrysene | <405 | | <200 |
| coumaphos | NR | | NR |
| p-cresidine | NR | | NR |
| crotoxyphos | NR | | NR |
| 2-cyclohexyl-4,6-dinitro-phenol | NR | | NR |
| 4,4'-DDD | NR | | NR |
| 4,4'-DDE | NR | | NR |
| 4,4'-DDT | NR | | NR |

| Table B-6-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB35(5.0) | NA | LF-SB35(5.0) QA |
| demeton-O | NR | | NR |
| demeton-S | NR | | NR |
| diallate (cis or trans) | NR | | NR |
| dibenz(a,j)acridine | NR | | NR |
| dibenz(a,h)anthracene | <405 | | <200 |
| dibenzofuran | <405 | | <200 |
| 1,2-dibromo-3-chloropropane | NR | | NR |
| di-n-butyl phthalate | <405 | | <1000 |
| 1,2-dichlorobenzene | <405 | | <100 |
| 1,3-dichlorobenzene | <405 | | <200 |
| 1,4-dicholorbenzene | <405 | | <200 |
| 3,3'-dichlorobenzidine | <405 | | NR |
| 2,4-dichlorophenol | <405 | | <600 |
| 2,6-dichlorophenol | NR | | NR |
| dichlorovos | NR | | NR |
| dicrotophos | NR | | NR |
| dieldrin | NR | | NR |
| diethyl phthalate | <410 | | <200 |
| 3,3'-dimethoxybenzidine | NR | | NR |
| dimethylaminoazobenzene-7,12-dimethylbenz(a)anthracene | NR | | NR |
| 3,3'-dimethylbenzidine | NR | | NR |
| 2,4-dimethylphenol | <405 | | <200 |
| dimethyl phthalate | <405 | | <400 |
| 1,2-dinitrobenzene | NR | | NR |
| 1,3-dinitrobenzene | NR | | NR |
| 4,6-dinitro-2-methylphenol | <2020 | | <1000 |
| 2,4-dinitrophenol | <2020 | | <3000 |
| 2,4-dinitrotoluene | <405 | | <300 |

| Table B-6-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB35(5.0) | NA | LF-SB35(5.0) QA |
| 2,6-dinitrotoluene | <405 | | <300 |
| dinoseb | NR | | NR |
| diphenylamine | NR | | NR |
| 5,5-diphenylhydantoin | NR | | NR |
| 1,2-diphenylhydrazine | NR | | NR |
| di-n-octyl phthalate | <405 | | <200 |
| disulfoton | NR | | NR |
| endosulfan I | NR | | NR |
| endosulfan II | NR | | NR |
| endosulfan sulfate | NR | | NR |
| endrin | NR | | NR |
| endrin aldehyde | NR | | NR |
| endrin ketone | NR | | NR |
| EPN | NR | | NR |
| ethion | NR | | NR |
| ethyl methanesulfonate | NR | | NR |
| ethyl parathion | NR | | NR |
| famphur | NR | | NR |
| fensulfothion | NR | | NR |
| fenthion | NR | | NR |
| fluchloralin | NR | | NR |
| fluroanthene | <405 | | <200 |
| fluorene | <405 | | <200 |
| heptchlor | NR | | NR |
| heptchlor epoxide | NR | | NR |
| hexachlorobenzene | <405 | | <300 |
| hexachlorobutadiene | <405 | | <600 |
| hexachlorocyclopentadiene | <405 | | <200 |
| hexachloroethane | <405 | | <200 |

| Table B-6-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB35(5.0) | NA | LF-SB35(5.0) QA |
| hexachloropropene | NR | | NR |
| hexamethylphosphoramide | NR | | NR |
| indeno(1,2,3-cd)pyrene | <405 | | <200 |
| isodrin | NR | | NR |
| isophorone | <405 | | NR |
| kepone | NR | | NR |
| leptophos | NR | | NR |
| mestranol | NR | | NR |
| methapyrilene | NR | | NR |
| methoxychlor | NR | | NR |
| 3-methylcholanthrene | NR | | NR |
| 4,4'-methylenebis(N,N-dimethylaniline) | NR | | NR |
| methyl methanesulfonate | NR | | NR |
| 2-methylnaphthalene | <405 | | NR |
| 2-methyl-5-nitroaniline | NR | | NR |
| methyl parathion | NR | | NR |
| 2-methylphenol | <405 | | <200 |
| 3-methylphenol | <405 | | NR |
| 4-methylphenol | <405 | | NR |
| 2-methylpyridine | NR | | NR |
| mevinphos | NR | | NR |
| mirex | NR | | NR |
| naled | NR | | NR |
| naphthalene | <405 | | <600 |
| 1,4-naphthoquinone | NR | | NR |
| 2-naphthylamine | NR | | NR |
| 5-nitroacenaphthene | NR | | NR |
| 2-nitroaniline | <2020 | | <200 |



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| Table B-6-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB35(5.0) | NA | LF-SB35(5.0) QA |
| 3-nitroaniline | <2020 | | <200 |
| 4-nitroaniline | <2020 | | NR |
| 5-nitro-o-anisidine | NR | | NR |
| nitrobenzene | <405 | | <600 |
| 4-nitrobiphenyl | NR | | NR |
| nitrofen | NR | | NR |
| 2-nitrophenol | <405 | | <600 |
| 4-nitrophenol | <982 | | <600 |
| 5-nitro-o-toluidine | NR | | NR |
| nitroquinoline-1-oxide | NR | | NR |
| N-nitrosodibutylamine | NR | | NR |
| N-nitrosodibutylamine | NR | | NR |
| N-nitrosodiethylamine | NR | | NR |
| N-nitrosodimethylamine | NR | | NR |
| N-nitrosodiphenylamine | <405 | | <200 |
| N-nitrosodi-n-propylamine | <405 | | <200 |
| N-nitrosopiperidine | NR | | NR |
| N-nitrosopyrrolidine | NR | | NR |
| 4,4'-oxydianiline | NR | | NR |
| parathion | NR | | NR |
| pentachlorobenzene | NR | | NR |
| pentachloronitrobenzene | NR | | NR |
| pentachlorophenol | <2020 | | <300 |
| phenacetin | NR | | NR |
| phenanthrene | <405 | | <200 |
| phenobarbital | NR | | NR |
| 1,4-phenylenediamine | NR | | NR |
| phorate | NR | | NR |
| piperonyl sulfoxide | NR | | NR |

| Table B-6-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB35(5.0) | NA | LF-SB35(5.0) QA |
| pronamide | NR | | NR |
| pyrene | <405 | | <600 |
| safrole | NR | | NR |
| sulfallate | NR | | NR |
| terbufos | NR | | NR |
| 1,2,4,5-tetrachlorobenzene | NR | | NR |
| 2,3,4,6-tetrachlorophenol | NR | | NR |
| tetrachlorvinphos | NR | | NR |
| tetraethyl dithiopyrophosphate | NR | | NR |
| tetraethyl pyrophosphate | NR | | NR |
| thioinazine | NR | | NR |
| thiophenol (benzenethiol) | NR | | NR |
| o-toluidine | NR | | NR |
| toxaphene | NR | | NR |
| 1,2,4-trichlorobenzene | <405 | | <600 |
| 2,4,5-trichlorophenol | <2020 | | <300 |
| 2,4,6-trichlorophenol | <405 | | <200 |
| trifluralin | NR | | NR |
| 2,4,5-trimethylaniline | NR | | NR |
| 1,3,5-trinitrobenzene | NR | | NR |
| tris(2,3-dibromopropyl)phosphate | NR | | NR |
| tri-p-tolyl phosphate | NR | | NR |
| O,O,O-triethyl phosphorothioate | NR | | NR |
| | | | |
| | | | |

| Table B-7-1 - Field Comparability<br>Volatile Organic Compounds (VOC) | | | |
|---|---|---|---|
| Compound | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB50(8.0) | NA | LF-SB50(8.0) QA |
| acetone | <23.8 | | <30 |
| allyl chloride | NR | | NR |
| benzene | <5.96 | | <1.0 |
| benzyl chloride | NR | | NR |
| bromochloromethane | <5.96 | | <1.0 |
| bromoform | <5.96 | | <1.0 |
| bromomethane | <5.96 | | <2.0 |
| carbon tetrachloride | <5.96 | | <1.0 |
| chlorobenzene | <5.96 | | <1.0 |
| chlorodibromomethane | <5.96 | | <1.0 |
| chloroethane | <5.96 | | <3.0 |
| 2-chloroethyl vinyl ether | <11.9 | | NR |
| chloroform | <5.96 | | <1.0 |
| chloromethane | <5.96 | | <3.0 |
| chloroprene | NR | | NR |
| 1,2-dibromoethane | <5.96 | | <1.0 |
| dibromomethane | <5.96 | | <1.0 |
| 1,2-dichlorobenzene | <5.96 | | <1.0 |
| 1,3-dichlorobenzene | <5.96 | | <1.0 |
| 1,4-dichlorobenzene | <5.96 | | <1.0 |
| cis-1,4-dichloro-2-butene | NR | | NR |
| dichlorodifluoromethane | NR | | <2.0 |
| 1,1-dichloroethane | <5.96 | | <1.0 |
| 1,2-dichloroethane | <5.96 | | <1.0 |
| 1,1-dichloroethene | <5.96 | | <1.0 |
| cis-1,2-dichloroethene | <5.96 | | <1.0 |
| trans-1,2-dichloroethene | <5.96 | | <2.0 |
| 1,2-dichloroethene (total) | NA | | NA |
| 1,2-dichloropropane | <5.96 | | <1.0 |
| cis-1,3-dichloropropene | <5.96 | | NR |
| trans-1,3-dichloropropene | <5.96 | | NR |
| 1,2,3,4-diepoxybutane | NR | | NR |
| diethyl ether | NR | | NR |
| ethylbenzene | <5.96 | | <1.0 |

| Table B-7-1 - Field Comparability<br>Volatile Organic Compounds (VOC) | | | |
|---|---|---|---|
| Compound | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB50(8.0) | NA | LF-SB50(8.0) QA |
| ethyl methacrylate | NR | | NR |
| napthalene | NR | | <1.0 |
| nitrobenzene | NR | | NR |
| 2-nitropropane | NR | | NR |
| n-proplamine | NR | | NR |
| styrene | <5.96 | | <1.0 |
| 1,1,1,2-tetrachloroethane | <5.96 | | <1.0 |
| 1,1,2,2-tetrachloroethane | <5.96 | | <2.0 |
| tetrachloroethene | <5.96 | | <1.0 |
| toluene | <5.96 | | <2.0 |
| 1,2,4-trichlorobenzene | <5.96 | | <1.0 |
| 1,1,1-trichloroethane | <5.96 | | <1.0 |
| 1,1,2-trichloroethane | <5.96 | | <1.0 |
| trichloroethene | <5.96 | | <1.0 |
| trichlorofluoromethane | <5.96 | | <1.0 |
| 1,2,3-trichloropropane | <5.96 | | <2.0 |
| vinyl acetate | <59.6 | | NR |
| vinyl chloride | <2.34 | | <2.0 |
| o-xylene | <5.96 | | <1.0 |
| m-xylene | <5.96 | | <1.0 |
| p-xylene | <5.96 | | <1.0 |
| xylenes (total) | NA | | NA |
| | | | |

| Table B-7-2 - Field Comparability<br>Metals | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (mg/kg) | QC Sample (mg/kg) | QA Sample (mg/kg) |
| | LF-SB50(8.0) | NA | LF-SB50(8.0) QA |
| Aluminum | 7920 | | 8340 |
| Antimony | <6.0 | | 0.2 J |
| Arsenic | 2.20 | | 4.8 |
| Barium | 55.7 | | 52.3 |
| Beryllium | 0.48 | | 0.52 |
| Bismuth | NR | | |
| Boron | NR | | |
| Cadmium | <0.60 | | <1.2 |
| Calcium | 10500 | | 3080 |
| Chromium | 13.7 | | 7.9 |
| Cobalt | 5.0 | | 8.9 |
| Copper | 4.15 | | 4.1 |
| Iron | 11600 | | 18900 |
| Lead | 8.40 | | 13.1 |
| Lithium | | | |
| Magnesium | 2270 | | 2460 |
| Manganese | 164 | | 272 |
| Mercury | <0.143 | | 0.008 J |
| Molybednum | | | |
| Nickel | 11.5 | | 11.2 |
| Phosphorus | | | |
| Potassium | 1600 | | 1700 |
| Selenium | <0.60 | | 0.70 |
| Silicon | | | |
| Silver | <0.60 | | <1.2 |
| Sodium | 3230 | | 4100 |
| Sulfur | | | |
| Tellerium | | | |
| Thallium | <1.19 | | 0.2 J |
| Tin | 1.8 | | 22.3 |
| Titanium | | | |
| Tungsten | | | |
| Uranium | | | |

03309

| Table B-7-2 - Field Comparability<br>Metals | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (mg/kg) | QC Sample (mg/kg) | QA Sample (mg/kg) |
| | LF-SB50(8.0) | NA | LF-SB50(8.0) QA |
| Vanadium | 15.8 | | 16.8 |
| Yttrium | | | |
| Zinc | NR | | 33.2 |
| | | | |
| | | | |

03310

| Table B-8-1 - Field Comparability<br>Volatile Organic Compounds (VOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/L) | QC Sample (ug/L) | QA Sample (ug/L) |
| | LF-W39 | NA | LF-W39 QA |
| acetone | <20.0 | | <6.0 |
| allyl chloride | NR | | NR |
| benzene | <5.0 | | <0.1 |
| benzyl chloride | NR | | NR |
| bromochloromethane | <5.0 | | <0.4 |
| bromoform | <5.0 | | <0.3 |
| bromomethane | <5.0 | | <0.4 |
| carbon tetrachloride | <5.0 | | <0.2 |
| chlorobenzene | <5.0 | | <0.2 |
| chlorodibromomethane | <5.0 | | <0.4 |
| chloroethane | <5.0 | | <0.5 |
| 2-chloroethyl vinyl ether | <10.0 | | NR |
| chloroform | <5.0 | | <0.2 |
| chloromethane | <5.0 | | <0.4 |
| chloroprene | NR | | NR |
| 1,2-dibromoethane | <5.0 | | <0.3 |
| dibromoethane | <5.0 | | <0.3 |
| 1,2-dichlorobenzene | <5.0 | | <0.2 |
| 1,3-dichlorobenzene | <5.0 | | <0.2 |
| 1,4-dichlorobenzene | <5.0 | | <0.2 |
| cis-1,4-dichloro-2-butene | NR | | NR |
| dichlorodifluoromethane | NR | | <0.4 |
| 1,1-dichloroethane | <5.0 | | <0.2 |
| 1,2-dichloroethane | <5.0 | | <0.3 |
| 1,1-dichloroethene | <5.0 | | <0.4 |
| cis-1,2-dichloroethene | <5.0 | | <0.3 |
| trans-1,2-dichloroethene | <5.0 | | <0.3 |
| 1,2-dichloroethene (total) | NA | | NA |
| 1,2-dichloropropane | <5.0 | | <0.2 |
| cis-1,3-dichloropropene | <5.0 | | NR |
| trans-1,3-dichloropropene | <5.0 | | NR |
| 1,2,3,4-diepoxybutane | NR | | NR |
| diethyl ether | NR | | NR |

| Table B-8-1 - Field Comparability<br>Volatile Organic Compounds (VOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/L) | QC Sample (ug/L) | QA Sample (ug/L) |
| | LF-W39 | NA | LF-W39 QA |
| ethylbenzene | <5.0 | | <0.2 |
| ethyl methacrylate | NR | | NR |
| methylene chloride | <5.0 | | <0.4 |
| napthalene | NR | | <0.3 |
| nitrobenzene | NR | | NR |
| 2-nitropropane | NR | | NR |
| n-proplamine | NR | | NR |
| styrene | <5.0 | | <0.2 |
| 1,1,1,2-tetrachloroethane | <5.0 | | <0.2 |
| 1,1,2,2-tetrachloroethane | <5.0 | | <0.3 |
| tetrachloroethene | <5.0 | | <0.2 |
| toluene | <5.0 | | <0.2 |
| 1,2,4-trichlorobenzene | <5.0 | | <0.2 |
| 1,1,1-trichloroethane | <5.0 | | <0.2 |
| 1,1,2-trichloroethane | <5.0 | | <0.4 |
| trichloroethene | <5.0 | | <0.2 |
| trichlorofluoromethane | <5.0 | | <0.3 |
| 1,2,3-trichloropropane | <5.0 | | <0.3 |
| vinyl acetate | <50.0 | | NR |
| vinyl chloride | <2.0 | | <0.2 |
| o-xylene | <5.0 | | <0.3 |
| m-xylene | <5.0 | | <0.5 |
| p-xylene | <5.0 | | |
| xylenes (total) | NA | | NA |
| | | | |

| Table B-9-1 - Field Comparability<br>Herbicides (Herb) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB47(5.0) | NA | LF-SB47(5.0) QA |
| 2,4-D | <58.2 | | <46.5 |
| 2,4-DB | <58.2 | | <46.5 |
| 2,4,5-T | <5.82 | | <46.5 |
| 2,4,5-TP (silvex) | <5.82 | | <46.5 |
| dalapon | <33 | | NR |
| dicamba | <5.82 | | <46.5 |
| dichlorprop | <58.2 | | NR |
| dinoseb | <23.3 | | NR |
| MCPA | <23300 | | NR |
| MCPP | <23000 | | NR |
| | | | |
| | | | |

| Table B-10-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB39(5.0) | NA | LF-SB39(5.0) QA |
| acenaphthene | <376 | | <575 |
| acenaphthylene | <376 | | <575 |
| acetophenone | NR | | NR |
| 2-acetylaminofluorene | NR | | NR |
| 1-acetyl-2-thiourea | NR | | NR |
| aldrin | NR | | NR |
| 2-aminoanthraquinone | NR | | NR |
| aminoazobenzene | NR | | NR |
| 4-aminobiphenyl | NR | | NR |
| 3-amino-9-ethylcarbazole | NR | | NR |
| anilazine | NR | | NR |
| aniline | NR | | NR |
| o-anisidine | NR | | NR |
| anthracene | <376 | | <575 |
| benzoic acid | <911 | | NR |
| benz(a)anthracene | <376 | | <575 |
| benzo(b)fluoranthene | <376 | | <575 |
| benzo(k)fluoranthene | <376 | | <575 |
| benzo(g,h,i)perylene | <376 | | <575 |
| benzo(a)pyrene | <376 | | <575 |
| benzyl alcohol | <740 | | <575 |
| α-BHC | NR | | NR |
| β-BHC | NR | | NR |
| δ-BHC | NR | | NR |
| γ-BHC | NR | | NR |
| bis(2-chloroethoxy)methane | <376 | | <575 |
| bis(2-chloroethyl)ether | <376 | | <575 |
| bis(2-chloroisopropyl)ether | <376 | | <575 |
| bis(2-ethylhexy)phthalate | <376 | | <575 |



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| Table B-10-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB39(5.0) | NA | LF-SB39(5.0) QA |
| 4-bromophenyl phenyl ether | <376 | | <575 |
| bromoxynil | NR | | NR |
| butyl benzyl phthalate | <376 | | <575 |
| 2-sec-butyl-4,6-dinitrophenol | NR | | NR |
| carbaryl | NR | | NR |
| carbonfuran | NR | | NR |
| carbophenothion | NR | | NR |
| chlorodane | NR | | NR |
| chlorfenvinphos | NR | | NR |
| 4-chloroaniline | <376 | | <575 |
| chlorobenzilate | NR | | NR |
| 5-chloro-2-methylaniline | NR | | NR |
| 4-chloro-3-methylphenol | <740 | | <575 |
| 3-(chloromethyl)pyridine hydrochloride | NR | | NR |
| 1-chloronaphthalene | <376 | | NR |
| 2-chloronapthalene | <376 | | <575 |
| 2-chlorophenol | <376 | | <575 |
| 4-chloro-1,2-phenylenediamine | NR | | NR |
| 4-chloro-1,3-phenylenediamine | NR | | NR |
| 4-chlorophenyl phenyl ether | <376 | | <575 |
| chrysene | <376 | | <575 |
| coumaphos | NR | | NR |
| p-cresidine | NR | | NR |
| crotoxyphos | NR | | NR |
| 2-cyclohexyl-4,6-dinitro-phenol | NR | | NR |
| 4,4'-DDD | NR | | NR |
| 4,4'-DDE | NR | | NR |
| 4,4'-DDT | NR | | NR |

| Table B-10-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB39(5.0) | NA | LF-SB39(5.0) QA |
| demeton-O | NR | | NR |
| demeton-S | NR | | NR |
| diallate (cis or trans) | NR | | NR |
| dibenz(a,j)acridine | NR | | NR |
| dibenz(a,h)anthracene | <376 | | <575 |
| dibenzofuran | <376 | | <575 |
| 1,2-dibromo-3-chloropropane | NR | | NR |
| di-n-butyl phthalate | <376 | | <575 |
| 1,2-dichlorobenzene | <376 | | <575 |
| 1,3-dichlorobenzene | <376 | | <575 |
| 1,4-dicholorbenzene | <376 | | <575 |
| 3,3'-dichlorobenzidine | <376 | | NR |
| 2,4-dichlorophenol | <376 | | <575 |
| 2,6-dichlorophenol | NR | | NR |
| dichlorovos | NR | | NR |
| dicrotophos | NR | | NR |
| dieldrin | NR | | NR |
| diethyl phthalate | <376 | | <575 |
| 3,3'-dimethoxybenzidine | NR | | NR |
| dimethylaminoazobenzene-7,12-dimethylbenz(a)anthracene | NR | | NR |
| 3,3'-dimethylbenzidine | NR | | <1150 |
| 2,4-dimethylphenol | <376 | | <575 |
| dimethyl phthalate | <376 | | <575 |
| 1,2-dinitrobenzene | NR | | NR |
| 1,3-dinitrobenzene | NR | | NR |
| 4,6-dinitro-2-methylphenol | <1880 | | <575 |
| 2,4-dinitrophenol | <1880 | | <1150 |
| 2,4-dinitrotoluene | <376 | | <575 |



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| Table B-10-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB39(5.0) | NA | LF-SB39(5.0) QA |
| 2,6-dinitrotoluene | <376 | | <575 |
| dinoseb | NR | | NR |
| diphenylamine | NR | | NR |
| 5,5-diphenylhydantoin | NR | | NR |
| 1,2-diphenylhydrazine | NR | | NR |
| di-n-octyl phthalate | <376 | | <575 |
| disulfoton | NR | | NR |
| endosulfan I | NR | | NR |
| endosulfan II | NR | | NR |
| endosulfan sulfate | NR | | NR |
| endrin | NR | | NR |
| endrin aldehyde | NR | | NR |
| endrin ketone | NR | | NR |
| EPN | NR | | NR |
| ethion | NR | | NR |
| ethyl methanesulfonate | NR | | NR |
| ethyl parathion | NR | | NR |
| famphur | NR | | NR |
| fensulfothion | NR | | NR |
| fenthion | NR | | NR |
| fluchloralin | NR | | NR |
| fluroanthene | <376 | | <575 |
| fluorene | <376 | | <575 |
| heptchlor | NR | | NR |
| heptchlor epoxide | NR | | NR |
| hexachlorobenzene | <376 | | <575 |
| hexachlorobutadiene | <376 | | <575 |
| hexachlorocyclopentadiene | <376 | | <1150 |
| hexachloroethane | <376 | | <575 |

| Table B-10-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB39(5.0) | NA | LF-SB39(5.0) QA |
| hexachloropropene | NR | | NR |
| hexamethylphosphoramide | NR | | NR |
| indeno(1,2,3-cd)pyrene | <376 | | <575 |
| isodrin | NR | | NR |
| isophorone | <376 | | NR |
| kepone | NR | | NR |
| leptophos | NR | | NR |
| mestranol | NR | | NR |
| methapyrilene | NR | | NR |
| methoxychlor | NR | | NR |
| 3-methylcholanthrene | NR | | NR |
| 4,4'-methylenebis(N,N-dimethylaniline) | NR | | NR |
| methyl methanesulfonate | NR | | NR |
| 2-methylnaphthalene | <376 | | <575 |
| 2-methyl-5-nitroaniline | NR | | NR |
| methyl parathion | NR | | NR |
| 2-methylphenol | <376 | | <575 |
| 3-methylphenol | <376 | | <575 |
| 4-methylphenol | <376 | | |
| 2-methylpyridine | NR | | NR |
| mevinphos | NR | | NR |
| mirex | NR | | NR |
| naled | NR | | NR |
| naphthalene | <376 | | <575 |
| 1,4-naphthoquinone | NR | | NR |
| 2-naphthylamine | NR | | NR |
| 5-nitroacenaphthene | NR | | NR |
| 2-nitroaniline | <1880 | | <575 |

| Table B-10-1 - Field Comparability<br>Semivolatile Organic Compounds (SVOCs) | | | |
|---|---|---|---|
| Compounds | Results | | |
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB39(5.0) | NA | LF-SB39(5.0) QA |
| 3-nitroaniline | <1880 | | <575 |
| 4-nitroaniline | <1880 | | <575 |
| 5-nitro-o-anisidine | NR | | NR |
| nitrobenzene | <376 | | <575 |
| 4-nitrobiphenyl | NR | | NR |
| nitrofen | NR | | NR |
| 2-nitrophenol | <376 | | <575 |
| 4-nitrophenol | <911 | | <575 |
| 5-nitro-o-toluidine | NR | | NR |
| nitroquinoline-1-oxide | NR | | NR |
| N-nitrosodibutylamine | NR | | NR |
| N-nitrosodibutylamine | NR | | NR |
| N-nitrosodiethylamine | NR | | NR |
| N-nitrosodimethylamine | NR | | <575 |
| N-nitrosodiphenylamine | <376 | | <575 |
| N-nitrosodi-n-propylamine | <376 | | <575 |
| N-nitrosopiperidine | NR | | NR |
| N-nitrosopyrrolidine | NR | | NR |
| 4,4'-oxydianiline | NR | | NR |
| parathion | NR | | NR |
| pentachlorobenzene | NR | | NR |
| pentachloronitrobenzene | NR | | NR |
| pentachlorophenol | <1880 | | <575 |
| phenacetin | NR | | NR |
| phenanthrene | <376 | | <575 |
| phenobarbital | NR | | NR |
| 1,4-phenylenediamine | NR | | NR |
| phorate | NR | | NR |
| piperonyl sulfoxide | NR | | NR |

Table B-10-1 - Field Comparability
Semivolatile Organic Compounds (SVOCs)

| Compounds | Results | | |
|---|---|---|---|
| | Field Sample (ug/kg) | QC Sample (ug/kg) | QA Sample (ug/kg) |
| | LF-SB39(5.0) | NA | LF-SB39(5.0) QA |
| pronamide | NR | | NR |
| pyrene | <376 | | <575 |
| safrole | NR | | NR |
| sulfallate | NR | | NR |
| terbufos | NR | | NR |
| 1,2,4,5-tetrachlorobenzene | NR | | NR |
| 2,3,4,6-tetrachlorophenol | NR | | NR |
| tetrachlorvinphos | NR | | NR |
| tetraethyl dithiopyrophosphate | NR | | NR |
| tetraethyl pyrophosphate | NR | | NR |
| thioinazine | NR | | NR |
| thiophenol (benzenethiol) | NR | | NR |
| o-toluidine | NR | | NR |
| toxaphene | NR | | NR |
| 1,2,4-trichlorobenzene | <376 | | <575 |
| 2,4,5-trichlorophenol | <1880 | | <575 |
| 2,4,6-trichlorophenol | <376 | | <575 |
| trifluralin | NR | | NR |
| 2,4,5-trimethylaniline | NR | | NR |
| 1,3,5-trinitrobenzene | NR | | NR |
| tris(2,3-dibromopropyl)phosphate | NR | | NR |
| tri-p-tolyl phosphate | NR | | NR |
| O,O,O-triethyl phosphorothioate | NR | | NR |
| | | | |
| | | | |

03320

# SWF-EV-L Report No. 16824
# Results of Chemical Analyses of Water Samples

U.S. ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
Environmental Services Section
4815 Cass Street
Dallas, Texas 75235
214/905-9130

# CASE NARRATIVE

Twenty-six water samples, one travel blank, one equipment blank, and one quality assurance water sample arrived at Southwestern Division Laboratory on 11 of July 1997 from former Webb AFB - Laredo TX. Corrections on the chain of custody with a single line through the incorrect information and initialing are recommended. SWD recommends placing each container in an individual bag to prevent cross contamination. The volatile vials contained bubbles that were greater than six mm in size. SWD received one bottle for metals for sample LF-W45 that was not listed on the chain of custody. Per conversation with the client; add metals to the chain of custody for sample LF-W45. The samples were distributed for analysis as shown in the following table:

| LABORATORIES | SAMPLE TYPES |
|---|---|
| SWD | QA for sample S70322-24: volatiles. |
| Intertek Testing Services | Field and QC for samples S70322-1 to S70322-29: volatiles and metals. |

The above laboratories are Corps of Engineers' validated laboratories. The computerized data from Intertek Testing Services in Intertek Testing Services' standard deliverable format.

The data package from Southwestern Division Laboratory was received complete with all required internal quality control information. All of the analyses were performed using specified methods within proper holding times.

The majority of all the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exception:

-For volatiles: in batch 970721W1; an LCS and LCSD were prepared instead of an MS and MSD.

All method blanks were free of contamination.

The data package from Intertek Testing Services was received complete with all required internal quality control information. All of the analyses were performed using specified methods within proper holding times. The equipment blank; sample S70322-14, contained 0.235 mg/L of aluminum, 10.7 mg/L of sodium, 0.0529 ug/L of endosulfan II, and one TIC for semi-volatiles. The majority of all of the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exceptions:

-For metals: in batch AC160-10F; the MS, MSD, and MS/MSD RPD for lead and selenium were outside of quality control limits due to matrix interference.

Samples S70322-1, S70322-3, S70322-5, S70322-10, S70322-14, and S70322-21; a dilution was used for arsenic, lead, and selenium. The results were below the detection limits.

-For pesticides: in batch AC142-49A; an BS and BSD were prepared instead of an MS and MSD.

-For herbicides: in batch AC142-50; an BS and BSD were prepared instead of an MS and MSD.

-For semi-volatiles: in batch AC142-56; an BS and BSD were prepared instead of an MS and MSD.

All method blanks were free of contamination.

Following is a synopsis of the quality assurance samples and their related field samples:

**Customer Sample No.:** LF-W39, LF-W39-QA
**SWD Lab Sample No. :** S70322-23, S70322-24
**Date of Sampling for Field Sample:** 10 July 1997
**Date of Sampling for QA Sample :** 10 July 1997

| Parameter | Primary Method | Field | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|
| VOA: | 8260 | 0 HITs<br>0 TICs | 1 HIT<br>0 TICs | 8260A | ug/L | Agree |
| trichloroethene | | <5.0 | 0.7J | | | |

Confirmatory Columns (Col. 1/Col. 2 RPD) SW-846 Method 8081 for pesticides and PCBs requires that analytes detected on the primary analytical column (Column 1) also be confirmed on a secondary column (Column 2). The analyte presence is confirmed on the secondary column if it appears within its prescribed retention time window. The analyte concentration is confirmed if the relative percent deviation (RPD) between the primary and confirmatory columns is ≤ 40%.

Method Detection Limit (MDL) The MDL is the minimum concentration of a substance that can be measured within a given matrix and reported at the 99% confidence level that the analyte concentration is greater than zero (per 40 CFR 136 App. B). The MDL is obtained by seven replicate analyses of a matrix at an analyte concentration level which is two to five times the estimated MDL. The MDL is defined as 3.14
times the standard deviation of the replicate sample results. Because of the high uncertainty at low concentrations, MDLs are expressed to only one significant figure. Analytical results which indicate no detection of analyte are expressed with the less than (<) qualifier followed by the MDL (e.g., < 2 mg/L)

Method Quantitation Limit (MQL) The MQL is defined as ten times the standard deviation determined from the MDL study (approximately 3.18 times the MDL).

Laboratory Reporting Limit (LRL) The LRL is a reporting limit which may be based on a project-specific reporting limit, a regulatory action level, or the laboratory's MDL. In the absence of project-specific requirements, the LRL is set at approximately three to ten times the MDL (at or slightly above the MQL). Typically, the LRL defines the concentration of the lowest standard used during calibration; in any case, the LRL should never be lower than the lowest calibration standard. It is impractical to exactly match the concentrations of multi-analyte standard solutions (e.g., VOAs, SVOAs, pesticides, ICP metals) to the calculated LRLs for each individual analyte. Actual LRLs, therefore, are sometimes defined by the concentration of the lowest calibration standard (although they are never less than the calculated LRL). Analytical values which are greater than the MDL but less than the LRL are expressed with the qualifier "J", indicating that they are only estimated values.

Sample Detection Limit (SDL) The Sample Detection Limit (SDL) is the MDL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal MDL (i.e., moisture content of a soil or sediment).

Sample Quantitation Limit (SQL) The Sample Quantitation Limit (SQL) is the MQL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal MQL (i.e., moisture content of a soil or sediment).

Sample Reporting Limit (SRL) The Sample Reporting Limit (SRL) is the LRL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal LRL (i.e., moisture content of a soil or sediment).

SWDL Analytical Result Qualifiers:

| | |
|---|---|
| < | Indicates that the analytical result is **less than** the following value, e.g., "< 2 mg/L" means that the sample contained less than 2 mg/L of the analyte. The **less than** symbol is typically associated with detection limit values. |
| > | Indicates that the analytical result is **greater than** the following value, e.g., "> 2000 µg/L" means that the sample contained more than 2000 µg/L of the analyte. The **greater than** symbol is typically associated with analytical values which greatly exceeded the upper calibration limit of the analysis. |
| J | Indicates that the result is an **estimated value**, e.g., "J 23 mg/Kg" means that the sample contained approximately 23 mg/Kg of the analyte. The "J" flag indicates that there is a 99% confidence that the analyte is present (i.e., above the detection limit), but that the actual quantitated value has a higher degree of uncertainty than may be implied based upon the significant figures used in the result. In the example above, the "J" flag indicates that the uncertainty in the result is greater than the ±1 mg/Kg that the significant figures would imply. The "J" flag is applied to values which lie between the detection limit and the reporting limit. |
| B | Indicates that the analyte was also found in the method blank. |
| E | Indicates that the result is an estimated value because it **exceeded the upper calibration limit** of the test, e.g., "E 4000 µg/Kg" indicates that the sample contained approximately 4000 µg/Kg of the analyte. |
| UC | Indicates that the presence of the analyte was **unconfirmed** by a secondary analysis. This may mean that a secondary analysis was not performed, or that a secondary analysis failed to detect the analyte, or that the analyte was detected with a secondary analysis, but failed to reproduce the quantitated result to within ± 35% of the original value. |
| HT | Indicates that the analysis was not performed within a required maximum **holding time**. This may mean that the maximum holding time prior to extraction or digestion was exceeded, or that the maximum holding time prior to analysis was exceeded, or both. |
| MSA | Indicates that the analysis was performed using the **method of standard additions**. Usually this applies to samples where a preliminary analysis reveals the presence of a matrix effect which interferes with the accurate analysis of the sample (i.e., a "matrix interference"). This flag is typically seen in metals analyses performed via graphite furnace atomic absorption spectrophotometry (GFAA). |
| MI | Indicates that the result is missing or is an estimated value because the analyst noted the presence of a **matrix interference** which interfered with the accurate analysis of the sample. |

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-1 LF-W49
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Aluminum | /1 | 0.100 mg/L | 20.6 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Arsenic | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 20-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Barium | /1 | 0.0100 mg/L | 0.172 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Beryllium | /1 | 0.0030 mg/L | < 0.0030 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

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REPORT NUMBER : D97-8619-1 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 25.0 mg/L | 1337.2 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.0301 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0220 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Copper | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Iron | /1 | 0.100 mg/L | 37.2 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 15-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 16-JUL-1997 by AH<br>QC Batch No : AC160-19 | | | |

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| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | 13.6 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Magnesium | /1 | 0.500 mg/L | 342 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Manganese | /1 | 0.0100 mg/L | 1.17 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Sodium | /1 | 50.0 mg/L | 3250 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.0269 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Lead | /1 | 0.0020 mg/L | 0.0044 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

REPORT NUMBER : D97-8619-1



| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.0245 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Zinc | /3 | 0.0200 mg/L | 0.0837 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 29-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 29-JUL-1997 by GAY<br>QC Batch No : AC161-82 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-1 LF-W49
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8619-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8619-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 114 % |
| Bromofluorobenzene (SS) | | 131 % |
| 1,2-Dichloroethane-d4 (SS) | | 112 % |
| Dibromofluoromethane (SS) | | 114 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-1 LF-W49
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-2
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-2 LF-W50U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8619-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 122 % |
| 1,2-Dichloroethane-d4 (SS) | | 107 % |
| Dibromofluoromethane (SS) | | 108 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-2
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-2 LF-W50U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-3 LF-W50
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Aluminum | /1 | 0.100 mg/L | 1.94 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Arsenic | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 20-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Barium | /1 | 0.0100 mg/L | 0.0489 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Beryllium | /1 | 0.0030 mg/L | < 0.0030 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

REPORT NUMBER : D97-8619-3 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 25.0 mg/L | 1064.3 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.0429 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Chromium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Copper | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Iron | /1 | 0.100 mg/L | 4.13 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 15-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 16-JUL-1997 by AH<br>QC Batch No : AC160-19 | | | |



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REPORT NUMBER : D97-8619-3 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | 16.5 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Magnesium | /1 | 0.500 mg/L | 442 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Manganese | /1 | 0.0100 mg/L | 2.48 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Sodium | /1 | 50.0 mg/L | 2580 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.0277 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Lead | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

REPORT NUMBER : D97-8619-3 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Vanadium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Zinc | /3 | 0.0200 mg/L | 0.0241 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 29-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 29-JUL-1997 by GAY<br>QC Batch No : AC161-82 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-3 LF-W50
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8619-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 101 % |
| Bromofluorobenzene (SS) | | 117 % |
| 1,2-Dichloroethane-d4 (SS) | | 102 % |
| Dibromofluoromethane (SS) | | 102 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-3 LF-W50
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-3011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-4 LF-W51U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 101 % |
| Bromofluorobenzene (SS) | | 119 % |
| 1,2-Dichloroethane-d4 (SS) | | 100 % |
| Dibromofluoromethane (SS) | | 103 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-4 LF-W51U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-5 LF-W51
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Aluminum | /1 | 0.100 mg/L | 6.44 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Arsenic | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 20-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Barium | /1 | 0.0100 mg/L | 0.0479 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Beryllium | /1 | 0.0030 mg/L | < 0.0030 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

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REPORT NUMBER : D97-8619-5 PAGE 2

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Calcium | /1 | 25.0 mg/L | 562.2 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.157 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0082 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Copper | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Iron | /1 | 0.100 mg/L | 16.6 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 15-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 16-JUL-1997 by AH<br>QC Batch No : AC160-19 | | | |



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REPORT NUMBER : D97-8619-5 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | 29.9 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Magnesium | /1 | 25.0 mg/L | 1430 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Manganese | /1 | 0.0100 mg/L | 5.56 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Sodium | /1 | 50.0 mg/L | 6090 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.102 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Lead | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

REPORT NUMBER : D97-8619-5 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Tin | /1 | 0.010 mg/L | 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Vanadium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Zinc | /3 | 0.0200 mg/L | 0.0241 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 29-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 29-JUL-1997 by GAY<br>QC Batch No : AC161-82 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-5 LF-W51
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8619-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8619-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 99.0 % |
| Bromofluorobenzene (SS) | | 114 % |
| 1,2-Dichloroethane-d4 (SS) | | 98.6 % |
| Dibromofluoromethane (SS) | | 101 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-5 LF-W51
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-6
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-6 LF-W54U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8619-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8619-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 106 % |
| Bromofluorobenzene (SS) | | 122 % |
| 1,2-Dichloroethane-d4 (SS) | | 107 % |
| Dibromofluoromethane (SS) | | 112 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-6
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-6 LF-W54U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-7 LF-W54
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 106 % |
| Bromofluorobenzene (SS) | | 119 % |
| 1,2-Dichloroethane-d4 (SS) | | 102 % |
| Dibromofluoromethane (SS) | | 106 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-7 LF-W54
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-8 LF-W55U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 120 % |
| 1,2-Dichloroethane-d4 (SS) | | 101 % |
| Dibromofluoromethane (SS) | | 109 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-8 LF-W55U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-9
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-9 LF-W55
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 108 % |
| Bromofluorobenzene (SS) | | 119 % |
| 1,2-Dichloroethane-d4 (SS) | | 101 % |
| Dibromofluoromethane (SS) | | 106 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-9
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-9 LF-W55
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-10 LF-PW
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | | RESULTS |
|---|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < | 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | | |
| Aluminum | /1 | 0.100 mg/L | | 0.301 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | | |
| Arsenic | /1 | 0.0250 mg/L | < | 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 20-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | | |
| Barium | /1 | 0.0100 mg/L | | 0.107 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | | |
| Beryllium | /1 | 0.0030 mg/L | < | 0.0030 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | | |

REPORT NUMBER : D97-8619-10 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 0.50 mg/L | 70.33 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cobalt | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Chromium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Copper | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Iron | /1 | 0.100 mg/L | < 0.100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 15-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 16-JUL-1997 by AH<br>QC Batch No : AC160-19 | | | |



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1089 East Collins Boulevard Richardson, TX 75081
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REPORT NUMBER : D97-8619-10 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | 4.29 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Magnesium | /1 | 0.500 mg/L | 22.3 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Manganese | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Sodium | /1 | 50.0 mg/L | 126 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Nickel | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Lead | /1 | 0.0020 mg/L | < 0.0020 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

REPORT NUMBER : D97-8619-10 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Vanadium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Zinc | /3 | 0.0200 mg/L | 0.0365 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 29-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 29-JUL-1997 by GAY<br>QC Batch No : AC161-82 | | | |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-11 LF-W57U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 110 % |
| 1,2-Dichloroethane-d4 (SS) | | 98.4 % |
| Dibromofluoromethane (SS) | | 101 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-11 LF-W57U
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
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DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-12 LF-W57
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/l | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8619-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 99.6 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 105 % |
| Dibromofluoromethane (SS) | | 109 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-12 LF-W57
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-13
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-13 LF-W59
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8619-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 115 % |
| 1,2-Dichloroethane-d4 (SS) | | 96.6 % |
| Dibromofluoromethane (SS) | | 104 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-13
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-13 LF-W59
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-14 LF-SB55(2.0)EB
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Aluminum | /1 | 0.100 mg/L | 0.235 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Arsenic | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 20-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Barium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Beryllium | /1 | 0.0030 mg/L | < 0.0030 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

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REPORT NUMBER : D97-8619-14 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 0.50 mg/L | < 0.50 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cobalt | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Chromium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Copper | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Iron | /1 | 0.100 mg/L | < 0.100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 15-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 16-JUL-1997 by AH<br>QC Batch No : AC160-19 | | | |

REPORT NUMBER : D97-8619-14 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | < 1.00 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Magnesium | /1 | 0.500 mg/L | < 0.500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Manganese | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Sodium | /1 | 1.00 mg/L | 10.7 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Nickel | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Lead | /1 | 0.0020 mg/L | < 0.0020 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Vanadium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Zinc | /3 | 0.0200 mg/L | < 0.0200 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 29-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 29-JUL-1997 by GAY<br>QC Batch No : AC161-82 | | | |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-14 LF-SB55(2.0)EB
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : JMR
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 22-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC142-50

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-14
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 83.1 % |

Applicable results are reported on Dry Weight basis.

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# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-14 LF-SB55(2.0)EB
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 100 % |
| Bromofluorobenzene (SS) | | 111 % |
| 1,2-Dichloroethane-d4 (SS) | | 92.8 % |
| Dibromofluoromethane (SS) | | 94.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-14 LF-SB55(2.0)EB
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-14 LF-SB55(2.0)EB
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
PREPARATION METHOD : EPA 3510B
PREPARED BY : KDF
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-56

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8619-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Butyl benzyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Carbazole | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chloroaniline | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chloronaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Chrysene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenz(a,h)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenzofuran | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-butylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,3-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,4-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 3,3'-Dichlorobenzidine | 20.0 | µg/L | < | 20.0 | µg/L |
| Diethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Dimethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,6-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-octylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluorene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobutadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorocyclopentadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachloroethane | 10.0 | µg/L | < | 10.0 | µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Isophorone | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-8619-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2-Methylnaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| Naphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 3-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| Nitrobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodiphenylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodi-n-propylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| Phenanthrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2,4-Trichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzoic acid | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Chloro-3-methylphenol | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dimethylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2,4-Dinitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitrophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Nitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Pentachlorophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Phenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,5-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,6-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-8619-14 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 80.0 % |
| 2-Fluorobiphenyl (SS) | | 80.8 % |
| Terphenyl-d14 (SS) | | 77.6 % |
| Phenol-d6 (SS) | | 41.3 % |
| 2-Fluorophenol (SS) | | 57.8 % |
| 2,4,6-Tribromophenol (SS) | | 101 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-14 LF-SB55(2.0)EB
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-56

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Unknown cyclic hydrocarbon | 27.68 | ABN | 90 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-15 TB04
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-15
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-15
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 100 % |
| Bromofluorobenzene (SS) | | 110 % |
| 1,2-Dichloroethane-d4 (SS) | | 96.8 % |
| Dibromofluoromethane (SS) | | 99.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-15 TB04
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 8-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-16
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-16 LF-W58
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-16
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-16
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 101 % |
| Bromofluorobenzene (SS) | | 113 % |
| 1,2-Dichloroethane-d4 (SS) | | 103 % |
| Dibromofluoromethane (SS) | | 104 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-16
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-16 LF-W58
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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03412

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-17
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-17 LF-W56
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-17
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-17
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 99.8 % |
| Bromofluorobenzene (SS) | | 113 % |
| 1,2-Dichloroethane-d4 (SS) | | 102 % |
| Dibromofluoromethane (SS) | | 101 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-17
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-17 LF-W56
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-18
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-18 LF-W52
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8619-18
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-18
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 114 % |
| 1,2-Dichloroethane-d4 (SS) | | 105 % |
| Dibromofluoromethane (SS) | | 103 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-18
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-18 LF-W52
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-19
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-19 LF-W53
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-19
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-19
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 100 % |
| Bromofluorobenzene (SS) | | 111 % |
| 1,2-Dichloroethane-d4 (SS) | | 102 % |
| Dibromofluoromethane (SS) | | 103 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-19
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-19 LF-W53
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-20
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-20 LF-W46
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0715977002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-20
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-20
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 101 % |
| Bromofluorobenzene (SS) | | 116 % |
| 1,2-Dichloroethane-d4 (SS) | | 99.2 % |
| Dibromofluoromethane (SS) | | 105 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-20
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-20 LF-W46
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0715977002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-21
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-21 LF-W45
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Aluminum | /1 | 0.100 mg/L | 106 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Arsenic | /1 | 0.0500 mg/L | 0.100 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 20-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Barium | /1 | 0.0100 mg/L | 0.280 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0064 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

REPORT NUMBER : D97-8619-21 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 25.0 mg/L | 977.6 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.185 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.110 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0382 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Iron | /1 | 0.100 mg/L | 231 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Mercury | /2 | 0.0002 mg/L | 0.0004 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 17-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 18-JUL-1997 by AH<br>QC Batch No : AC160-38 | | | |

REPORT NUMBER : D97-8619-21 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | 41.7 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Magnesium | /1 | 0.500 mg/L | 354 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Manganese | /1 | 0.0100 mg/L | 7.75 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Sodium | /1 | 50.0 mg/L | 2710 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.259 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Lead | /1 | 0.0400 mg/L | 0.0806 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |

REPORT NUMBER : D97-8619-21 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 15-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-10F | | | |
| Tin | /1 | 0.010 mg/L | 0.018 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.0857 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 15-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-11 | | | |
| Zinc | /3 | 0.0200 mg/L | 0.696 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 29-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 29-JUL-1997 by GAY<br>QC Batch No : AC161-82 | | | |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-21
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-21 LF-W45
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707147001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-21
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-21
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 114 % |
| 1,2-Dichloroethane-d4 (SS) | | 108 % |
| Dibromofluoromethane (SS) | | 111 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-21
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-21 LF-W45
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 9-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707147001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-22
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-22 LF-W29
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707147001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8619-22
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-22
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 97.0 % |
| Bromofluorobenzene (SS) | | 90.6 % |
| 1,2-Dichloroethane-d4 (SS) | | 81.2 % |
| Dibromofluoromethane (SS) | | 83.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-22
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-22 LF-W29
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707147001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-23
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-23 LF-W39
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707147001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-23
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-23
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 114 % |
| 1,2-Dichloroethane-d4 (SS) | | 109 % |
| Dibromofluoromethane (SS) | | 109 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-23
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-23 LF-W39
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707147001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

03444

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB
Date Sampled : 10 July 1997
Date Analyzed: 22 July 1997
Method No: 8260A
QC Batch No : 970721W1
Dilution Factor: 1
Analyst: JSN

Date Reported : 31 July 1997
Date Received : 11 July 1997
Site : Landfill
SWD Lab No. : S70322-24
Field ID: LF-W39-QA
Sample Matrix: Water

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| Acetone | 6.0 | 20 | < 6.0 |
| Benzene | 0.2 | 1 | < 0.2 |
| Bromobenzene | 0.3 | 1 | < 0.3 |
| Bromochloromethane | 0.4 | 2 | < 0.4 |
| Bromodichloromethane | 0.2 | 1 | < 0.2 |
| Bromoform | 0.3 | 2 | < 0.3 |
| Bromomethane | 0.4 | 2 | < 0.4 |
| 2-Butanone | 4.0 | 20 | < 4.0 |
| n-Butylbenzene | 0.2 | 1 | < 0.2 |
| sec- Butylbenzene | 0.2 | 1 | < 0.2 |
| tert-Butylbenzene | 0.2 | 1 | < 0.2 |
| Carbon tetrachloride | 0.2 | 1 | < 0.2 |
| Chlorobenzene | 0.2 | 1 | < 0.2 |
| Chloroethane | 0.5 | 2 | < 0.5 |
| Chloroform | 0.2 | 1 | < 0.2 |
| Chloromethane | 0.4 | 2 | < 0.4 |
| 2-Chlorotoluene | 0.2 | 1 | < 0.2 |
| 4-Chlorotoluene | 0.2 | 1 | < 0.2 |
| Dibromochloromethane | 0.4 | 2 | < 0.4 |
| 1,2-Dibromo-3-chloropropane | 2.0 | 5 | < 2.0 |
| 1,2-Dibromoethane | 0.3 | 1 | < 0.3 |
| Dibromomethane | 0.3 | 1 | < 0.3 |
| 1,2-Dichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,3-Dichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,4-Dichlorobenzene | 0.2 | 1 | < 0.2 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB
Date Sampled : 10 July 1997
Date Analyzed: 22 July 1997
Method No: 8260A
QC Batch No : 970721W1
Dilution Factor: 1
Analyst: JSN

Date Reported : 31 July 1997
Date Received : 11 July 1997
Site : Landfill
SWD Lab No. : S70322-24
Field ID: LF-W39-QA
Sample Matrix: Water

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| Dichlorodifluoromethane | 0.4 | 2 | < 0.4 |
| 1,1-Dichloroethane | 0.2 | 1 | < 0.2 |
| 1,2-Dichloroethane | 0.3 | 1 | < 0.3 |
| 1,1-Dichloroethene | 0.4 | 2 | < 0.4 |
| cis-1,2-Dichloroethene | 0.3 | 2 | < 0.3 |
| trans-1,2-Dichloroethene | 0.3 | 1 | < 0.3 |
| 1,2-Dichloropropane | 0.2 | 1 | < 0.2 |
| 1,3-Dichloropropane | 0.4 | 2 | < 0.4 |
| 2,2-Dichloropropane | 0.3 | 1 | < 0.3 |
| 1,1-Dichloropropene | 0.2 | 1 | < 0.2 |
| Ethylbenzene | 0.2 | 1 | < 0.2 |
| Hexachlorobutadiene | 0.3 | 1 | < 0.3 |
| 2-Hexanone | 4.0 | 20 | < 4.0 |
| Isopropylbenzene | 0.2 | 1 | < 0.2 |
| p-Isopropyltoluene | 0.2 | 1 | < 0.2 |
| Methylene chloride | 0.4 | 2 | < 0.4 |
| 4-Methyl-2-pentanone | 4.0 | 20 | < 4.0 |
| Naphthalene | 0.3 | 1 | < 0.3 |
| n-Propylbenzene | 0.2 | 1 | < 0.2 |
| Styrene | 0.2 | 1 | < 0.2 |
| 1,1,1,2-Tetrachloroethane | 0.2 | 1 | < 0.2 |
| 1,1,2,2-Tetrachloroethane | 0.3 | 1 | < 0.3 |
| Tetrachloroethene | 0.2 | 1 | < 0.2 |
| Toluene | 0.2 | 1 | < 0.2 |
| 1,2,3-Trichlorobenzene | 0.3 | 1 | < 0.3 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

**Project:** Former Webb AFB
**Date Sampled :** 10 July 1997
**Date Analyzed:** 22 July 1997
**Method No:** 8260A
**QC Batch No :** 970721W1
**Dilution Factor:** 1
**Analyst:** JSN

**Date Reported :** 31 July 1997
**Date Received :** 11 July 1997
**Site :** Landfill
**SWD Lab No. :** S70322-24
**Field ID:** LF-W39-QA
**Sample Matrix:** Water

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| 1,2,4-Trichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,1,1-Trichloroethane | 0.2 | 1 | < 0.2 |
| 1,1,2-Trichloroethane | 0.4 | 2 | < 0.2 |
| Trichloroethene | 0.2 | 1 | 0.7 J |
| Trichlorofluoromethane | 0.3 | 2 | < 0.3 |
| 1,2,3-Trichloropropane | 0.3 | 1 | < 0.3 |
| 1,2,4-Trimethylbenzene | 0.2 | 1 | < 0.2 |
| 1,3,5-Trimethylbenzene | 0.2 | 1 | < 0.2 |
| Vinyl chloride | 0.2 | 2 | < 0.2 |
| o-Xylene | 0.3 | 1 | < 0.3 |
| m & p-Xylene | 0.5 | 2 | < 0.5 |

| Surrogates | Concentration of Surrogate (ug/l) | Amount Recovered |
|---|---|---|
| Dibromofluoromethane | 10 | 97 % |
| 1,2-Dichloroethane-d4 | 10 | 108 % |
| Toluene-d8 | 10 | 101 % |
| 4-Bromofluorobenzene | 10 | 106 % |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S70322-24

Lab Name: US ARMY CORPS OF ENGINEERS SWD LAB Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 322-24

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 322-24.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 7/22/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-24
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-25 LF-W36
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707147001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-24
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-24
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 123 % |
| 1,2-Dichloroethane-d4 (SS) | | 111 % |
| Dibromofluoromethane (SS) | | 115 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-24
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-25 LF-W36
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707147001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-25
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-26 LF-W42
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707147001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-25
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-25
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 110 % |
| Bromofluorobenzene (SS) | | 112 % |
| 1,2-Dichloroethane-d4 (SS) | | 115 % |
| Dibromofluoromethane (SS) | | 115 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-25
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-26 LF-W42
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707147001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Unknown | 1.20 | VOA | 37 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-26
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-27 LF-W38
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707147001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-26
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-26
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 88.8 % |
| Bromofluorobenzene (SS) | | 97.6 % |
| 1,2-Dichloroethane-d4 (SS) | | 94.2 % |
| Dibromofluoromethane (SS) | | 90.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-26
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-27 LF-W38
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707147001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

03460

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-27
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-28 LF-W43
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707147001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8619-27
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8619-27
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 100 % |
| Bromofluorobenzene (SS) | | 120 % |
| 1,2-Dichloroethane-d4 (SS) | | 105 % |
| Dibromofluoromethane (SS) | | 117 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 11-JUL-1997

REPORT NUMBER : D97-8619-27
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70322-28 LF-W43
PROJECT : Laredo SFL (S70322-1-23,25-29)
DATE SAMPLED : 10-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707147001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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1089 East Collins Boulevard Richardson, TX 75081
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED: 11-July-1997 REPORT NUMBER: D97-8619
REPORT DATE: 30-July-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran
PROJECT : Laredo S70322-1-23,25-29
DATE SAMPLED : 8-July-1997

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CASE NARRATIVE COMMENTS:

The results were reported on a dry weight basis, having been corrected for total solids.

No issues were noted during the sample analysis of this job.

Please refer to the attached case narrative summary for sample identifications, and analytical requests.

If you have any questions, please call Mr. John Todd at (972) 238-5591.

Amy Pence
Data Review/QC

Intertek Testing Services NA Inc.
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# SWF-EV-L Report No. 16824-1
# Results of Chemical Analyses of Water Samples

**U.S. ARMY CORPS OF ENGINEERS**
**Southwestern Division Laboratory**
**Environmental Services Section**
**4815 Cass Street**
**Dallas, Texas 75235**
**214/905-9130**

CASE NARRATIVE

Thirteen water samples and one travel blank arrived at Southwestern Division Laboratory on 27 June 1997 from Former Webb AFB - Laredo, TX. The samples arrived in fair condition with incomplete chains of custody. No MIPR number was listed on the chain of custody. Corrections on the chain of custody with a single line through the incorrect information and initialing are recommended. SWD recommends placing each container in an individual bag to prevent cross contamination. The sample vials arrived with bubbles that were greater than six mm in size. The analyses were contracted out to a Corps of Engineers' validated laboratory, Intertek Testing Services. The computerized data from Intertek Testing Services is in Intertek Testing Services' standard deliverable format.

The data package from Intertek Testing Services was received incomplete with all required internal quality control information. Sample S70311-8 was not analyzed for herbicides due to insufficient sample size. All of the analyses were performed using specified methods within proper holding times. The majority of all the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exceptions:

-For semi-volatiles: in batch AC141-22; an BS and BSD were prepared instead of a MS and MSD.

-For metals: in batch 17627F; the MS, MSD, and MS/MSD RPD for lead and selenium were outside of quality control limits due to matrix interference.

-For pesticides: in batch AC141-21; an BS and BSD were prepared instead of a MS and MSD.

Samples S70311-2 to S70311-10; one surrogate was outside of quality control limits.

Sample S70311-8; a 1/12 dilution was used due to sample size. The results were below the detection limit.

-For metals: samples S70311-4 to S70311-10; a dilution was used due to matrix interference. The results were below the detection limit.

All method blanks were free of contamination.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-1
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-1 TB01
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 112 % |
| 1,2-Dichloroethane-d4 (SS) | | 107 % |
| Dibromofluoromethane (SS) | | 107 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-1
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-1 TB01
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-2
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-2 LF-W1
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 205 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.250 mg/L | 0.459 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 2.30 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0157 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

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REPORT NUMBER : D97-7989-2 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 5460 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.0057 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.377 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.191 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.169 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 10.0 mg/L | 662 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-7989-2 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 73.9 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 0.500 mg/L | 376 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 1.00 mg/L | 54.5 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 500 mg/L | 2830 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.350 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 0.0400 mg/L | 0.329 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-2 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0050 mg/L | 0.0283 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 4-JUL-1997 by GGD<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | 0.025 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.966 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 1.14 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-2
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-2 LF-W1
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-30

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

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REPORT NUMBER : D97-7989-2
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 63.3 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-2
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-2 LF-W1
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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REPORT NUMBER : D97-7989-2
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 35.7 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 76.0 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-2
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-2 LF-W1
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 100 % |
| Bromofluorobenzene (SS) | | 111 % |
| 1,2-Dichloroethane-d4 (SS) | | 108 % |
| Dibromofluoromethane (SS) | | 106 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-2
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-2 LF-W1
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

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REPORT NUMBER : D97-7989-2
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-2 LF-W1
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Acenaphthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Acenaphthylene | 10.0 | µg/L | < | 10.0 | µg/L |
| Anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(a)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(b)fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(k)fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(g,h,i)perylene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(a)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzyl alcohol | 20.0 | µg/L | < | 20.0 | µg/L |
| Bis(2-chloroethoxy)methane | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-chloroethyl)ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Bromophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-7989-2
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Butyl benzyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Carbazole | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chloroaniline | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chloronaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Chrysene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenz(a,h)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenzofuran | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-butylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,3-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,4-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 3,3'-Dichlorobenzidine | 20.0 | µg/L | < | 20.0 | µg/L |
| Diethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Dimethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,6-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-octylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluorene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobutadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorocyclopentadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachloroethane | 10.0 | µg/L | < | 10.0 | µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Isophorone | 10.0 | µg/L | < | 10.0 | µg/L |



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REPORT NUMBER : D97-7989-2
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-2
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 60.0 % |
| 2-Fluorobiphenyl (SS) | | 69.8 % |
| Terphenyl-d14 (SS) | | 40.0 % |
| Phenol-d6 (SS) | | 55.6 % |
| 2-Fluorophenol (SS) | | 39.5 % |
| 2,4,6-Tribromophenol (SS) | | 73.9 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-2
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-2 LF-W1
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| 1-tert-Butoxy-2-ethoxyethane | 18.27 | ABN | 23 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-3
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-3 LF-W3
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 137 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.100 mg/L | 0.402 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 5.76 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0109 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-3 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 1188 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.130 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.141 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.166 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 10.0 mg/L | 394 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |

REPORT NUMBER : D97-7989-3 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 38.5 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 0.500 mg/L | 322 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 0.0100 mg/L | 2.99 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 100 mg/L | 1670 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.215 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 0.100 mg/L | 0.157 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |



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REPORT NUMBER : D97-7989-3 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0050 mg/L | 0.0065 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 4-JUL-1997 by GGD<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.881 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.698 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-3
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-3 LF-W3
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-30

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | 0.305 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | 0.232 µg/L |
| MCPA | 100 µg/L | 598 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

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REPORT NUMBER : D97-7989-3
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 83.6 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-3
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-3 LF-W3
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | 0.0830 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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REPORT NUMBER : D97-7989-3
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 36.6 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 66.0 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-3
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-3 LF-W3
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | 9.18 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-7989-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | 19.6 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 99.2 % |
| Bromofluorobenzene (SS) | | 106 % |
| 1,2-Dichloroethane-d4 (SS) | | 112 % |
| Dibromofluoromethane (SS) | | 111 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-3
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-3 LF-W3
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Fluorotrimethylsilane | 1.72 | VOA | 18 ug/L |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-3
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-3 LF-W3
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Acenaphthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Acenaphthylene | 10.0 | µg/L | < | 10.0 | µg/L |
| Anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(a)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(b)fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(k)fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(g,h,i)perylene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(a)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzyl alcohol | 20.0 | µg/L | < | 20.0 | µg/L |
| Bis(2-chloroethoxy)methane | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-chloroethyl)ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Bromophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-7989-3
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | 16.1 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-7989-3
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-3
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 53.8 % |
| 2-Fluorobiphenyl (SS) | | 65.2 % |
| Terphenyl-d14 (SS) | | 33.6 % |
| Phenol-d6 (SS) | | 40.0 % |
| 2-Fluorophenol (SS) | | 22.6 % |
| 2,4,6-Tribromophenol (SS) | | 59.9 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-3
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-3 LF-W3
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | |
|---|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT | |
| Ethane, 1,1'-oxybis[2-ethoxy-] | 5.90 | ABN | 19 | ug/L |
| Morpholine, 4-acetyl- | 7.37 | ABN | 20 | ug/L |
| Ethene, (2-methoxyethoxy)- | 7.45 | ABN | 20 | ug/L |
| 2H-Thiopyran, 3,4-dihydro- | 8.73 | ABN | 16 | ug/L |
| 4(1H)-Pyrimidinone, 6-methyl-2-(1- | 10.83 | ABN | 11 | ug/L |
| Diethyltoluamide | 11.70 | ABN | 17 | ug/L |
| Benzenesulfonic acid, 4-methyl-, e | 12.54 | ABN | 25 | ug/L |
| 2(3H)-Benzothiazolone | 12.88 | ABN | 20 | ug/L |
| 2,5-Pyrrolidinedione, 1-ethyl- | 13.21 | ABN | 16 | ug/L |
| Benzenesulfonamide, N-ethyl-4-meth | 13.29 | ABN | 15 | ug/L |
| Sulfur | 17.59 | ABN | 120 | ug/L |
| 1-tert-Butoxy-2-ethoxyethane | 18.29 | ABN | 97 | ug/L |
| Pantolactone | 21.33 | ABN | 13 | ug/L |
| Phenol, 2-amino- | 22.68 | ABN | 14 | ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-4
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-4 LF-W30
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 191 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.100 mg/L | 0.184 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 2.26 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0162 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-4 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 25.0 mg/L | 7653.1 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.291 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.187 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.127 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 5.00 mg/L | 611 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |



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REPORT NUMBER : D97-7989-4 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 56.6 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 0.500 mg/L | 161 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 0.500 mg/L | 23.2 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 50.0 mg/L | 245 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.307 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 0.0400 mg/L | 0.432 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | 0.028 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.477 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 1.02 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-4
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-4 LF-W30
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-30

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-4
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 79.5 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-4
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-4 LF-W30
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

REPORT NUMBER : D97-7989-4
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 35.8 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 71.6 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-4
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-4 LF-W30
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 100 % |
| Bromofluorobenzene (SS) | | 112 % |
| 1,2-Dichloroethane-d4 (SS) | | 115 % |
| Dibromofluoromethane (SS) | | 112 % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-4
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-4 LF-W30
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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03517

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-4
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-4 LF-W30
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-7989-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 60.6 % |
| 2-Fluorobiphenyl (SS) | | 66.0 % |
| Terphenyl-d14 (SS) | | 38.4 % |
| Phenol-d6 (SS) | | 54.8 % |
| 2-Fluorophenol (SS) | | 47.9 % |
| 2,4,6-Tribromophenol (SS) | | 57.7 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-4
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-4 LF-W30
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Trisiloxane, 1,1,1,5,5,5-hexamethy | 23.23 | ABN | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-5
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-5 LF-W14
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 406 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.250 mg/L | 0.535 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 1.68 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0299 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-5



TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Calcium | /1 | 50 mg/L | 1103 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.0123 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.421 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.482 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.303 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 10.0 mg/L | 1960 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0004 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |



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REPORT NUMBER : D97-7989-5 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 209 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 50.0 mg/L | 1330 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 0.0100 mg/L | 3.47 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 2000 mg/L | 8940 mg/L |
| Dilution Factor : 2000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.277 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 0.200 mg/L | 0.606 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.125 mg/L | < 0.125 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | 0.012 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.927 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 2.36 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-5
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-5 LF-W14
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-30

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-5
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 88.2 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-5
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-5 LF-W14
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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REPORT NUMBER : D97-7989-5
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Arcclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 27.9 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 69.0 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-5
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-5 LF-W14
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 101 % |
| Bromofluorobenzene (SS) | | 114 % |
| 1,2-Dichloroethane-d4 (SS) | | 111 % |
| Dibromofluoromethane (SS) | | 110 % |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-5
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-5 LF-W14
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
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DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-5
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-5 LF-W14
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | |
|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Acenaphthene | 10.0 | µg/L | < 10.0 | µg/L |
| Acenaphthylene | 10.0 | µg/L | < 10.0 | µg/L |
| Anthracene | 10.0 | µg/L | < 10.0 | µg/L |
| Benzo(a)anthracene | 10.0 | µg/L | < 10.0 | µg/L |
| Benzo(b)fluoranthene | 10.0 | µg/L | < 10.0 | µg/L |
| Benzo(k)fluoranthene | 10.0 | µg/L | < 10.0 | µg/L |
| Benzo(g,h,i)perylene | 10.0 | µg/L | < 10.0 | µg/L |
| Benzo(a)pyrene | 10.0 | µg/L | < 10.0 | µg/L |
| Benzyl alcohol | 20.0 | µg/L | < 20.0 | µg/L |
| Bis(2-chloroethoxy)methane | 10.0 | µg/L | < 10.0 | µg/L |
| Bis(2-chloroethyl)ether | 10.0 | µg/L | < 10.0 | µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 | µg/L | < 10.0 | µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 | µg/L | < 10.0 | µg/L |
| 4-Bromophenyl phenyl ether | 10.0 | µg/L | < 10.0 | µg/L |

REPORT NUMBER : D97-7989-5
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-7989-5
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-5
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 57.6 % |
| 2-Fluorobiphenyl (SS) | | 67.6 % |
| Terphenyl-d14 (SS) | | 31.6 % |
| Phenol-d6 (SS) | | 59.9 % |
| 2-Fluorophenol (SS) | | 53.8 % |
| 2,4,6-Tribromophenol (SS) | | 65.9 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-5
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-5 LF-W14
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| 1-Penten-3-ol, 2-methyl- | 17.52 | ABN | 37 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-6
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-6 LF-W5
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 128 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.0500 mg/L | 0.131 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 2.18 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0068 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-6 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 2962 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.111 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0737 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0832 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 0.100 mg/L | 132 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |



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REPORT NUMBER : D97-7989-6 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 36.6 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 50.0 mg/L | 691 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 1.00 mg/L | 10.6 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 500 mg/L | 3420 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.128 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 0.0400 mg/L | 0.112 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-6 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.318 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.353 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-6
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-6 LF-W5
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-30

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | 1.41 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-6
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 47.6 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-6
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-6 LF-W5
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | 0.0440 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

REPORT NUMBER : D97-7989-6
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 28.2 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 63.6 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-6
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-6 LF-W5
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | 15.3 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | 21.3 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 110 % |
| 1,2-Dichloroethane-d4 (SS) | | 110 % |
| Dibromofluoromethane (SS) | | 110 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-6
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-6 LF-W5
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-6
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-6 LF-W5
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Acenaphthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Acenaphthylene | 10.0 | µg/L | < | 10.0 | µg/L |
| Anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(a)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(b)fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(k)fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(g,h,i)perylene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(a)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzyl alcohol | 20.0 | µg/L | < | 20.0 | µg/L |
| Bis(2-chloroethoxy)methane | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-chloroethyl)ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Bromophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-7989-6
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | 30.8 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-7989-6
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2-Methylnaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| Naphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 3-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| Nitrobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodiphenylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodi-n-propylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| Phenanthrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2,4-Trichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzoic acid | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Chloro-3-methylphenol | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dimethylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2,4-Dinitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitrophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Nitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Pentachlorophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Phenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,5-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,6-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-7989-6
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 55.4 % |
| 2-Fluorobiphenyl (SS) | | 66.2 % |
| Terphenyl-d14 (SS) | | 43.2 % |
| Phenol-d6 (SS) | | 56.6 % |
| 2-Fluorophenol (SS) | | 45.0 % |
| 2,4,6-Tribromophenol (SS) | | 63.7 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-6
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-6 LF-W5
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | |
|---|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT | |
| Ethane, 1,1'-oxybis[2-ethoxy-] | 5.90 | ABN | 22 | ug/L |
| Pentanoic acid, ethyl ester | 6.37 | ABN | 98 | ug/L |
| Diethyltoluamide | 11.69 | ABN | 41 | ug/L |
| Benzenesulfonamide, 2-methyl- | 12.25 | ABN | 18 | ug/L |
| Benzene, 1-methyl-3-nitro- | 12.52 | ABN | 13 | ug/L |
| Benzenesulfonamide, 4-methyl- | 12.72 | ABN | 23 | ug/L |
| 2(3H)-Benzothiazolone | 12.82 | ABN | 10 | ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-7
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-7 LF-W6
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 401 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.0500 mg/L | 0.314 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 4.94 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0260 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-7 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 1320 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.456 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 1.26 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.154 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 10.0 mg/L | 1230 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |



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REPORT NUMBER : D97-7989-7 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 102 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 0.500 mg/L | 206 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 0.0100 mg/L | 2.90 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 100 mg/L | 825 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.468 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 1.00 mg/L | 4.56 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-7 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | 0.021 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.423 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 4.83 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-7
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-7 LF-W6
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-30

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-7
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 81.9 % |

Applicable results are reported on Dry Weight basis.



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# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-7
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-7 LF-W6
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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REPORT NUMBER : D97-7989-7
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 33.3 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 64.4 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-7
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-7 LF-W6
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-7989-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | 9.41 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | 5.34 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 113 % |
| 1,2-Dichloroethane-d4 (SS) | | 111 % |
| Dibromofluoromethane (SS) | | 113 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-7
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-7 LF-W6
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-7
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-7 LF-W6
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Acenaphthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Acenaphthylene | 10.0 | µg/L | < | 10.0 | µg/L |
| Anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(a)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(b)fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(k)fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(g,h,i)perylene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzo(a)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzyl alcohol | 20.0 | µg/L | < | 20.0 | µg/L |
| Bis(2-chloroethoxy)methane | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-chloroethyl)ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Bromophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-7989-7
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-7989-7
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2-Methylnaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| Naphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 3-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| Nitrobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodiphenylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodi-n-propylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| Phenanthrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2,4-Trichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzoic acid | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Chloro-3-methylphenol | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dimethylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2,4-Dinitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitrophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Nitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Pentachlorophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Phenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,5-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,6-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-7989-7
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 54.4 % |
| 2-Fluorobiphenyl (SS) | | 67.2 % |
| Terphenyl-d14 (SS) | | 32.6 % |
| Phenol-d6 (SS) | | 47.6 % |
| 2-Fluorophenol (SS) | | 46.7 % |
| 2,4,6-Tribromophenol (SS) | | 61.3 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-7
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-7 LF-W6
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | |
|---|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT | |
| 4-Piperidinone, 2,2,6,6-tetramethy | 6.44 | ABN | 23 | ug/L |
| Bicyclo[3.1.1]heptan-2-one, 6,6-di | 6.74 | ABN | 20 | ug/L |
| 2H-Pyran-2-one, tetrahydro-4,6,6-t | 7.05 | ABN | 11 | ug/L |
| 2(3H)-Furanone, 5-ethyldihydro-5-m | 7.16 | ABN | 20 | ug/L |
| 2(3H)-Benzothiazolone | 12.91 | ABN | 29 | ug/L |
| Benzoic acid, 3,5-bis(1,1-dimethyl | 15.64 | ABN | 11 | ug/L |
| Sulfur | 17.54 | ABN | 39 | ug/L |
| 1-tert-Butoxy-2-ethoxyethane | 18.30 | ABN | 100 | ug/L |
| 2,4-Diethyl-5-methylthiazole | 20.37 | ABN | 16 | ug/L |

Applicable results are reported on Dry Weight basis.

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# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-8
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-8 LF-W35
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 554 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.100 mg/L | 0.310 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 4.04 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0530 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

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REPORT NUMBER : D97-7989-8 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 1608 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.0073 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 1.38 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.668 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.256 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 10.0 mg/L | 1990 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |



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REPORT NUMBER : D97-7989-8 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 148 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 0.500 mg/L | 323 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 1.00 mg/L | 53.7 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 100 mg/L | 1590 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 1.11 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 0.100 mg/L | 0.555 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-8 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.937 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 5.68 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



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Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-8
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-8 LF-W35
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 12
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0472 µg/L | < 0.0472 µg/L |
| Alpha-BHC | 0.0354 µg/L | < 0.0354 µg/L |
| Beta-BHC | 0.0710 µg/L | < 0.0710 µg/L |
| Delta-BHC | 0.106 µg/L | < 0.106 µg/L |
| Gamma-BHC(Lindane) | 0.0472 µg/L | < 0.0472 µg/L |
| Chlordane | 0.165 µg/L | < 0.165 µg/L |
| 4,4'-DDD | 0.130 µg/L | < 0.130 µg/L |
| 4,4'-DDE | 0.0472 µg/L | < 0.0472 µg/L |
| 4,4'-DDT | 0.142 µg/L | < 0.142 µg/L |
| Dieldrin | 0.0240 µg/L | < 0.0240 µg/L |
| Endosulfan I | 0.165 µg/L | < 0.165 µg/L |
| Endosulfan II | 0.0472 µg/L | < 0.0472 µg/L |
| Endosulfan Sulfate | 0.779 µg/L | < 0.779 µg/L |
| Endrin | 0.0710 µg/L | < 0.0710 µg/L |

REPORT NUMBER : D97-7989-8
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.271 µg/L | < 0.271 µg/L |
| Heptachlor | 0.0354 µg/L | < 0.0354 µg/L |
| Heptachlor Epoxide | 0.979 µg/L | < 0.979 µg/L |
| Methoxychlor | 2.08 µg/L | < 2.08 µg/L |
| Toxaphene | 2.83 µg/L | < 2.83 µg/L |
| Aroclor-1016 | 0.770 µg/L | < 0.770 µg/L |
| Aroclor-1221 | 0.770 µg/L | < 0.770 µg/L |
| Aroclor-1232 | 0.770 µg/L | < 0.770 µg/L |
| Aroclor-1242 | 0.770 µg/L | < 0.770 µg/L |
| Aroclor-1248 | 0.770 µg/L | < 0.770 µg/L |
| Aroclor-1254 | 0.770 µg/L | < 0.770 µg/L |
| Aroclor-1260 | 0.770 µg/L | < 0.770 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 36.3 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 70.5 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-8
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-8 LF-W35
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-7989-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 112 % |
| 1,2-Dichloroethane-d4 (SS) | | 111 % |
| Dibromofluoromethane (SS) | | 111 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-8
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-8 LF-W35
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-8
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-8 LF-W35
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.2
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 12.0 µg/L | < 12.0 µg/L |
| Acenaphthylene | 12.0 µg/L | < 12.0 µg/L |
| Anthracene | 12.0 µg/L | < 12.0 µg/L |
| Benzo(a)anthracene | 12.0 µg/L | < 12.0 µg/L |
| Benzo(b)fluoranthene | 12.0 µg/L | < 12.0 µg/L |
| Benzo(k)fluoranthene | 12.0 µg/L | < 12.0 µg/L |
| Benzo(g,h,i)perylene | 12.0 µg/L | < 12.0 µg/L |
| Benzo(a)pyrene | 12.0 µg/L | < 12.0 µg/L |
| Benzyl alcohol | 24.0 µg/L | < 24.0 µg/L |
| Bis(2-chloroethoxy)methane | 12.0 µg/L | < 12.0 µg/L |
| Bis(2-chloroethyl)ether | 12.0 µg/L | < 12.0 µg/L |
| Bis(2-chloroisopropyl)ether | 12.0 µg/L | < 12.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 12.0 µg/L | < 12.0 µg/L |
| 4-Bromophenyl phenyl ether | 12.0 µg/L | < 12.0 µg/L |

REPORT NUMBER : D97-7989-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 12.0 µg/L | < 12.0 µg/L |
| Carbazole | 12.0 µg/L | < 12.0 µg/L |
| 4-Chloroaniline | 24.0 µg/L | < 24.0 µg/L |
| 2-Chloronaphthalene | 12.0 µg/L | < 12.0 µg/L |
| 4-Chlorophenyl phenyl ether | 12.0 µg/L | < 12.0 µg/L |
| Chrysene | 12.0 µg/L | < 12.0 µg/L |
| Dibenz(a,h)anthracene | 12.0 µg/L | < 12.0 µg/L |
| Dibenzofuran | 12.0 µg/L | < 12.0 µg/L |
| Di-n-butylphthalate | 12.0 µg/L | < 12.0 µg/L |
| 1,2-Dichlorobenzene | 12.0 µg/L | < 12.0 µg/L |
| 1,3-Dichlorobenzene | 12.0 µg/L | < 12.0 µg/L |
| 1,4-Dichlorobenzene | 12.0 µg/L | < 12.0 µg/L |
| 3,3'-Dichlorobenzidine | 24.0 µg/L | < 24.0 µg/L |
| Diethyl phthalate | 12.0 µg/L | < 12.0 µg/L |
| Dimethyl phthalate | 12.0 µg/L | < 12.0 µg/L |
| 2,4-Dinitrotoluene | 12.0 µg/L | < 12.0 µg/L |
| 2,6-Dinitrotoluene | 12.0 µg/L | < 12.0 µg/L |
| Di-n-octylphthalate | 12.0 µg/L | < 12.0 µg/L |
| Fluoranthene | 12.0 µg/L | < 12.0 µg/L |
| Fluorene | 12.0 µg/L | < 12.0 µg/L |
| Hexachlorobenzene | 12.0 µg/L | < 12.0 µg/L |
| Hexachlorobutadiene | 12.0 µg/L | < 12.0 µg/L |
| Hexachlorocyclopentadiene | 12.0 µg/L | < 12.0 µg/L |
| Hexachloroethane | 12.0 µg/L | < 12.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 12.0 µg/L | < 12.0 µg/L |
| Isophorone | 12.0 µg/L | < 12.0 µg/L |



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REPORT NUMBER : D97-7989-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 12.0 µg/L | < 12.0 µg/L |
| Naphthalene | 12.0 µg/L | < 12.0 µg/L |
| 2-Nitroaniline | 60.0 µg/L | < 60.0 µg/L |
| 3-Nitroaniline | 60.0 µg/L | < 60.0 µg/L |
| 4-Nitroaniline | 60.0 µg/L | < 60.0 µg/L |
| Nitrobenzene | 12.0 µg/L | < 12.0 µg/L |
| N-Nitrosodiphenylamine | 12.0 µg/L | < 12.0 µg/L |
| N-Nitrosodi-n-propylamine | 12.0 µg/L | < 12.0 µg/L |
| Phenanthrene | 12.0 µg/L | < 12.0 µg/L |
| Pyrene | 12.0 µg/L | < 12.0 µg/L |
| 1,2,4-Trichlorobenzene | 12.0 µg/L | < 12.0 µg/L |
| Benzoic acid | 60.0 µg/L | < 60.0 µg/L |
| 4-Chloro-3-methylphenol | 24.0 µg/L | < 24.0 µg/L |
| 2-Chlorophenol | 12.0 µg/L | < 12.0 µg/L |
| 2,4-Dichlorophenol | 12.0 µg/L | < 12.0 µg/L |
| 2,4-Dimethylphenol | 12.0 µg/L | < 12.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 60.0 µg/L | < 60.0 µg/L |
| 2,4-Dinitrophenol | 60.0 µg/L | < 60.0 µg/L |
| 2-Methylphenol | 12.0 µg/L | < 12.0 µg/L |
| 4-Methylphenol | 12.0 µg/L | < 12.0 µg/L |
| 2-Nitrophenol | 12.0 µg/L | < 12.0 µg/L |
| 4-Nitrophenol | 60.0 µg/L | < 60.0 µg/L |
| Pentachlorophenol | 60.0 µg/L | < 60.0 µg/L |
| Phenol | 12.0 µg/L | < 12.0 µg/L |
| 2,4,5-Trichlorophenol | 12.0 µg/L | < 12.0 µg/L |
| 2,4,6-Trichlorophenol | 12.0 µg/L | < 12.0 µg/L |

REPORT NUMBER : D97-7989-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 61.1 % |
| 2-Fluorobiphenyl (SS) | | 66.9 % |
| Terphenyl-d14 (SS) | | 29.7 % |
| Phenol-d6 (SS) | | 52.3 % |
| 2-Fluorophenol (SS) | | 43.9 % |
| 2,4,6-Tribromophenol (SS) | | 66.3 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-8
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-8 LF-W35
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-9
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-9 LF-W2
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 162 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.0500 mg/L | 0.105 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 3.69 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0090 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-9 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 2579 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.116 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0991 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.114 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 0.100 mg/L | 171 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |



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REPORT NUMBER : D97-7989-9 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 42.2 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 0.500 mg/L | 264 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 1.00 mg/L | 24.9 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 100 mg/L | 2100 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.149 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 0.100 mg/L | 0.156 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-9 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.472 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.458 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-9
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-9 LF-W2
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-30

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-9
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 81.7 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-9
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-9 LF-W2
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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REPORT NUMBER : D97-7989-9
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 30.4 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 71.6 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-9
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-9 LF-W2
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | 10.7 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 100 % |
| Bromofluorobenzene (SS) | | 111 % |
| 1,2-Dichloroethane-d4 (SS) | | 114 % |
| Dibromofluoromethane (SS) | | 114 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-9
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-9 LF-W2
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-9
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-9 LF-W2
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-9
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-9
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-9
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 60.2 % |
| 2-Fluorobiphenyl (SS) | | 71.2 % |
| Terphenyl-d14 (SS) | | 31.2 % |
| Phenol-d6 (SS) | | 53.8 % |
| 2-Fluorophenol (SS) | | 44.8 % |
| 2,4,6-Tribromophenol (SS) | | 67.3 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-9
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-9 LF-W2
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | |
|---|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT | |
| Sulfur, mol. (S8) | 17.55 | ABN | 23 | ug/L |
| Orthoformic acid, tri-sec-butyl es | 18.27 | ABN | 15 | ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-10
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-10 LF-W4
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Aluminum | /1 | 0.100 mg/L | 221 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Arsenic | /1 | 0.250 mg/L | 0.441 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Barium | /1 | 0.0100 mg/L | 2.40 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0164 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

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REPORT NUMBER : D97-7989-10 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 1927 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.254 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.193 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Copper | /1 | 0.0100 mg/L | 0.196 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Iron | /1 | 10.0 mg/L | 484 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 29-JUN-1997 by A_O<br>Analyzed using EPA 7470 on 30-JUN-1997 by CGJ<br>QC Batch No : HG-3924 | | | |



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REPORT NUMBER : D97-7989-10 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 93.4 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Magnesium | /1 | 0.500 mg/L | 180 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Manganese | /1 | 0.100 mg/L | 16.3 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Sodium | /1 | 500 mg/L | 3140 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.341 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Lead | /1 | 0.100 mg/L | 0.225 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

REPORT NUMBER : D97-7989-10 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 2-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17627F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.841 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |
| Zinc | /1 | 0.0200 mg/L | 1.21 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17623 | | | |

Applicable results are reported on Dry Weight basis.



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# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-10
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-10 LF-W4
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-30

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | 1.88 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | 1.65 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | 0.141 µg/L |
| MCPA | 100 µg/L | 402 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

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REPORT NUMBER : D97-7989-10
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 91.3 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-10
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-10 LF-W4
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-21

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | 0.0326 µg/L |
| Beta-BHC | 0.0600 µg/L | 0.132 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | 0.0635 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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REPORT NUMBER : D97-7989-10
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | 0.0783 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 23.9 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 38.8 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-10
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-10 LF-W4
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | 18.2 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-10
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | 20.6 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-10
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 101 % |
| Bromofluorobenzene (SS) | | 114 % |
| 1,2-Dichloroethane-d4 (SS) | | 116 % |
| Dibromofluoromethane (SS) | | 117 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-10
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-10 LF-W4
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Nc compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-10
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-10 LF-W4
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : CLT
PREPARED ON : 30-JUN-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-22

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-10
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Butyl benzyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Carbazole | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chloroaniline | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chloronaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Chrysene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenz(a,h)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenzofuran | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-butylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,3-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,4-Dichlorobenzene | 10.0 | µg/L | | 31.0 | µg/L |
| 3,3'-Dichlorobenzidine | 20.0 | µg/L | < | 20.0 | µg/L |
| Diethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Dimethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,6-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-octylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluorene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobutadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorocyclopentadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachloroethane | 10.0 | µg/L | < | 10.0 | µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Isophorone | 10.0 | µg/L | < | 10.0 | µg/L |



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REPORT NUMBER : D97-7989-10
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-7989-10
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 54.6 % |
| 2-Fluorobiphenyl (SS) | | 73.6 % |
| Terphenyl-d14 (SS) | | 32.8 % |
| Phenol-d6 (SS) | | 53.9 % |
| 2-Fluorophenol (SS) | | 45.0 % |
| 2,4,6-Tribromophenol (SS) | | 72.1 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-10
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-10 LF-W4
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-22

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | |
|---|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT | |
| Cyclobutanone, 2,3,3-trimethyl- | 5.67 | ABN | 13 | ug/L |
| Ethane, 1,1'-oxybis[2-ethoxy-] | 5.91 | ABN | 16 | ug/L |
| 9-Decen-2-one | 6.51 | ABN | 30 | ug/L |
| Cyclohexanemethanol, .alpha.,.alph | 6.79 | ABN | 75 | ug/L |
| Bicyclo[2.2.1]heptan-2-one, 1,7,7- | 6.87 | ABN | 17 | ug/L |
| Cyclopentanol, 1,2-dimethyl-3-(1-m | 6.97 | ABN | 24 | ug/L |
| 2H-Pyran-2-one, tetrahydro-4,6,6-t | 7.08 | ABN | 16 | ug/L |
| 4-Ethylcyclohexanol | 7.50 | ABN | 42 | ug/L |
| (1R,2R,4R)-p-Menthane-1,2,8-triol | 7.72 | ABN | 120 | ug/L |
| 2-Propanol, 1-ethoxy- | 7.82 | ABN | 100 | ug/L |
| Naphthalene, 1,2,3,4-tetrahydro-1, | 8.21 | ABN | 26 | ug/L |
| Bicyclo[2.2.1]heptane-2,5-dione, 1 | 8.37 | ABN | 22 | ug/L |
| 1H-1,2,4-Triazole, 3-methyl- | 8.64 | ABN | 44 | ug/L |
| Butanoic acid, 4-methoxy- | 9.67 | ABN | 9.0 | ug/L |
| Phthalazin-1-one | 12.12 | ABN | 23 | ug/L |
| Benzenesulfonyl chloride, 4-methyl | 12.66 | ABN | 34 | ug/L |
| 8-Hydroxyisotrichodermin | 14.88 | ABN | 27 | ug/L |

REPORT NUMBER : D97-7989-10
ANALYSIS METHOD : EPA 625/8270 /1



| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| 3,6,9,12,15-Pentaoxanonadecan-1-ol | 18.33 | ABN | 100 ug/L |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
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DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-11
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-11 LF-W37
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 116 % |
| 1,2-Dichloroethane-d4 (SS) | | 115 % |
| Dibromofluoromethane (SS) | | 115 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-11
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-11 LF-W37
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-12
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-12 LF-W7
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 118 % |
| 1,2-Dichloroethane-d4 (SS) | | 112 % |
| Dibromofluoromethane (SS) | | 117 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-12
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-12 LF-W7
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-13
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-13 LF-W48
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
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PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |



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REPORT NUMBER : D97-7989-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-7989-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 112 % |
| Bromofluorobenzene (SS) | | 118 % |
| 1,2-Dichloroethane-d4 (SS) | | 129 % |
| Dibromofluoromethane (SS) | | 116 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-14
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-14LF-W34
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707017001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-7989-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-7989-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 111 % |
| 1,2-Dichloroethane-d4 (SS) | | 110 % |
| Dibromofluoromethane (SS) | | 109 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 27-JUN-1997

REPORT NUMBER : D97-7989-14
REPORT DATE : 16-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70311-14LF-W34
PROJECT : Laredo SFL LF S70311-1-14
DATE SAMPLED : 26-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707017001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

03639

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED: 27-June-1997 REPORT NUMBER: D97-7989
REPORT DATE: 16-July-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran
PROJECT : Lareso SFL LF S70311-1-14
DATE SAMPLED : 26-June-1997

REVISED CASE NARRATIVE COMMENTS:

The applicable results were reported on a dry weight basis, having been corrected for total solids.

*Metals analysis*

*Selenium*
Due to matrix interference, samples D97-7989-5,6,7,8,9, and 10 were performed at a dilution. The selenium results were less than the reporting limit.

*EPA 8080 analysis*

Due to an insufficient sample volume, D97-7989-8 was prepared at a reduced sample volume. The reduced sample volume yielded method factors, raising the reporting limits accordingly.

*EPA 8151*

For sample D97-7989-8(S70311-8 LF-W35) no amber was received for the chlorinated herbicides; therefore, no analysis was performed.

No further issues were noted during the sample analysis of this job.

Please refer to the enclosed case narrative for sample identifications and analytical results.

If you have any questions, please call me at (972) 238-5591.

John Todd
Data Review/QC

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED: 27-June-1997 REPORT NUMBER: D97-7989
REPORT DATE: 16-July-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran
PROJECT : Lareso SFL LF S70311-1-14
DATE SAMPLED : 26-June-1997

CASE NARRATIVE COMMENTS:

The applicable results were reported on a dry weight basis, having been corrected for total solids.

*Metals analysis*

*Selenium*
Due to matrix interference, samples D97-7989-5,6,7,8,9, and 10 were performed at a dilution. The selenium results were less than the reporting limit.

*EPA 8080 analysis*

Due to an insufficient sample volume, D97-7989-8 was prepared at a reduced sample volume. The reduced sample volume yielded method factors, raising the reporting limits accordingly.

No further issues were noted during the sample analysis of this job.

Please refer to the enclosed case narrative for sample identifications and analytical results.

If you have any questions, please call Mr. John Todd at (972) 238-5591.

Amy Pence
Data Review/QC

Intertek Testing Services NA Inc.
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03641

# SWF-EV-L Report No. 16824-2
# Results of Chemical Analyses of Water and Soil Samples

U.S. ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
Environmental Services Section
4815 Cass Street
Dallas, Texas 75235
214/905-9130

# CASE NARRATIVE

Seventeen water samples, one travel blank, one equipment blank, twenty soil samples, one quality control soil sample, and two quality assurance soil samples arrived at Southwestern Division Laboratory on 30 of June 1997 from former Webb AFB -Laredo TX. The samples arrived in fair condition with incomplete chains of custody. No MIPR number was listed on the chains of custody. Corrections on the chains of custody with a single line through the incorrect information and initialing are recommended. SWD recommends placing each container in an individual bag to prevent cross contamination. The volatile vials contained bubbles that were greater than six mm in size. SWD received one bottle for semi-volatiles for sample LF-W26 that was not listed on the chains of custody. Per conversation with the client; add semi-volatiles to the chains of custody for sample LF-W26. Also, samples labeled LF-SB2(5.0) on the sample bottles should be LF-SB2(6.0) and LF-SB2(5.0)QA should be LF-SB2(2.0)QA. The samples were distributed for analysis as shown in the following table:

| LABORATORIES | SAMPLE TYPES |
|---|---|
| SWD | QA for sample S70315-33: volatiles.<br>QA for sample S70315-39: metals, pesticides, volatiles, and semi-volatiles. |
| Environmental Chemical Corporation | QA for sample S70315-39: herbicides and metals. |
| Intertek Testing Services | Field and QC for samples S70315-1 to S70315-42: volatiles, herbicides, pesticides, semi-volatiles, and metals. |

The above laboratories are Corps of Engineers' validated laboratories. The computerized data from Intertek Testing Services in Intertek Testing Services' standard deliverable format. The computerized data from Environmental Chemical Corporation in Environmental Chemical Corporation's standard deliverable format.

The data package from Southwestern Division Laboratory was received complete with all required internal quality control information. All of the analyses were performed using specified methods within proper holding times. Sample S70315-39 was analyzed by method of standard additions for antimony, arsenic, selenium, and thallium. The majority of all the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exceptions:

-For volatiles: in batch 970711S1; an LCS and LCSD were prepared instead of an MS and MSD.

-For metals: in batch 7-108S; the sample duplicate RPD for thallium and antimony were outside of quality control limits.

In batch 7-108S; the MS and MS/MSD RPD for arsenic and selenium were outside of quality control limits due to a non-homogeneous QC sample.

In batch 7-108S; the MS/MSD RPD for antimony and thallium were outside of quality control limits due to a non-homogeneous QC sample.

-For semi-volatiles: in batch 970702S33; an LCS and LCSD were prepared instead of an MS and MSD.

In batch 970702S33; the sample duplicate RPD, LCS, and LCSD were outside of quality control limits. The sample will be re-extracted and re-analyzed and the results will be forwarded as soon as possible.

Sample S70315-39; a 1/6 dilution was used due to matrix interference. The results were below the detection limit.

-For pesticides: in batch 767; an LCS and LCSD were prepared instead of an MS and MSD.

Sample S70315-39; the a-chlordane did not confirm within +/- 35% between the primary and confirmation columns due to the peak co-eluting with endosulfan I. The 4,4'-DDE and dieldrin did not confirm within +/- 35% between the primary and confirmation columns due to the peaks co-eluting with each other.

All method blanks were free of contamination.

The data package from Environmental Chemical Corporation was received complete with all required internal quality control information. The majority of all of the analyses were performed using specified methods within proper holding times. Sample S70315-39 for herbicides was outside of holding time. The majority of all the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exception:

-For metals: in batch DIGSP728; the MS, MSD, and MS/MSD RPD were outside of quality control limits due to matrix interference. The post-digested spike passed QC limits.

All method blanks were free of contamination.

The data package from Intertek Testing Services was received incomplete with all required internal quality control information. The pesticides were not analyzed for sample S70315-14 due to a tracking error by Intertek Testing Services. The majority of all of the analyses were performed using specified methods within proper holding times. Samples S70315-20, S70315-27 to S70315-30, and S70315-35 to S70315-42 were outside of the holding time for herbicides. The method blank was contaminated during the first analysis. The re-extraction was done outside of the holding time. The herbicides were analyzed by method 8151 and not the requested 8150 method. The results are comparable. The equipment blank; sample S70315-18, contained 0.68 mg/L of calcium. The majority of all of the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exceptions:

-For metals: in batch 17499 and 17706; the MS, MSD, and MS/MSD RPD for aluminum and iron were outside of quality control limits due to a high analyte in the QC sample.

Samples S70315-4 to 70315-18, S70315-30, and S70315-35; a dilution was used for selenium due to matrix interference. The results were below the detection limits.

In batches 17706 and 17499; the MS, MSD, and MS/MSD RPD for potassium, magnesium, antimony, and calcium were outside of quality control limits due to matrix interference.

In batches 17701F and 17705F; the MS, MSD, and MS/MSD RPD for selenium and arsenic were outside of quality control limits due to matrix interference.

-For pesticides: in batch AC141-74A; an BS and BSD were prepared instead of an MS and MSD.

In batch AC141-94A; the MS and MSD for endrin was outside of quality control limits.

In batch AC141-60; the MS, MSD, and MS/MSD RPD for endrin and 4,4'-DDT were outside of quality control limits due to matrix interference.

Samples S70315-3, S70315-32, S70315-35, S70315-37, and S70315-41; one surrogate was outside of quality control limits.

-For herbicides: in batch AC141-40; an BS and BSD were prepared instead of an MS and MSD.

In batch AC142-78; the MS, MSD, and MS/MSD RPD for 2,4,5-T and 2,4,5-TP were outside of quality control limits due to a non-homogeneous QC sample.

-For semi-volatiles: in batch AC141-37; the MS and MSD for trichlorobenzene were outside of quality control limits.

All method blanks were free of contamination.

Following is a synopsis of the quality assurance samples and their related QC and field samples:

**Customer Sample No.:** DR-SD1, DR-SD1-QC, DR-SD1-QA
**SWD Lab Sample No. :** S70315-37, S70315-38, S70315-39
**Date of Sampling for Field Sample:** 29 June 1997
**Date of Sampling for QA Sample :** 29 June 1997
**Date of Sampling for QC Sample :** 29 June 1997

| Parameter | Primary Method | Field | QC | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|---|
| Metals: | | | | | | | |
| Aluminum | 6010A | 4580 | 6550 | 7470 | 6010A | mg/Kg | Agree |
| Antimony | 6010A | <7.08 | <6.85 | 0.79** | 7041 | mg/Kg | Agree |
| Arsenic | 7060 | 2.02 | 2.37 | 2.2** | 7060 | mg/Kg | Agree |
| Barium | 6010A | 50.9 | 62.3 | 101 | 6010A | mg/Kg | Agree |
| Beryllium | 6010A | <0.42 | <0.41 | 0.42 | 6010A | mg/Kg | Agree |
| Cadmium | 6010A | <0.71 | <0.68 | <1.4 | 6010A | mg/Kg | Agree |
| Cobalt | 6010A | 2.89 | 2.96 | 5.0 | 6010A | mg/Kg | Agree |
| Calcium | 6010A | 13900 | 15700 | 27700 | 6010A | mg/Kg | Agree |
| Chromium | 6010A | 4.02 | 5.86 | 6.4 | 6010A | mg/Kg | Agree |
| Copper | 6010A | 3.49 | 4.66 | 5.9 | 6010A | mg/Kg | Agree |
| Iron | 6010A | 5860 | 7480 | 10700 | 6010A | mg/Kg | Agree |
| Magnesium | 6010A | 1500 | 1990 | 2450 | 6010A | mg/Kg | Agree |
| Manganese | 6010A | 57.6 | 69.9 | 97.0 | 6010A | mg/Kg | Agree |
| Nickel | 6010A | 4.41 | 5.38 | 7.0 | 6010A | mg/Kg | Agree |
| Tin | 6010A | 1.37 | 1.47 | <13.9 | 6010A | mg/Kg | Agree |
| Potassium | 6010A | 1220 | 1650 | 2010 | 6010A | mg/Kg | Agree |
| Lead | 6010A | 7.54 | 10.8 | 48.3 | 7421 | mg/Kg | Agree |
| Mercury | 7471 | <0.170 | <0.164 | 0.020J | 7471 | mg/Kg | Agree |
| Selenium | 7740 | <1.42 | <1.37 | 0.36** | 7740 | mg/Kg | Agree |
| Silver | 6010A | <0.71 | <0.68 | <1.4 | 6010A | mg/Kg | Agree |
| Sodium | 6010A | 443 | 473 | 673 | 6010A | mg/Kg | Agree |
| Thallium | 6010A | <1.4 | <1.4 | <0.2** | 7841 | mg/Kg | Agree |
| Vanadium | 6010A | 9.44 | 12.5 | 16.2 | 6010A | mg/Kg | Agree |
| Zinc | 6010A | 23.6 | 29.5 | 46.9 | 6010A | mg/Kg | Agree |
| VOA | 8260 | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 8260A | ug/Kg | Agree |
| SVOA | 8270B | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 8270B | mg/Kg | Agree |
| herbicide | 8151 | 0 HITs | 0 HITs | 0 HITs | 8150 | ug/Kg | Agree |
| pesticides | 8080 | 1 HIT | 1 HIT | 5 HITs | 8081 | ug/Kg | |
| chlordane | | 783 | 1110 | 2100 | | | Agree |
| 4,4'-DDD | | <51.8 | <193 | 37 | | | Agree |
| 4,4'-DDE | | <18.8 | <70.4 | 91* | | | Disagr |
| 4,4'-DDT | | <56.5 | <211 | 62 | | | Agree |
| dieldrin | | <9.42 | <35.2 | 130* | | | Disagr |

* Not confirmed within 35% of confirmation column and primary column.
** Analyzed by method of standard additions.

Confirmatory Columns (Col. 1/Col. 2 RPD) SW-846 Method 8081 for pesticides and PCBs requires that analytes detected on the primary analytical column (Column 1) also be confirmed on a secondary column (Column 2). The analyte presence is confirmed on the secondary column if it appears within its prescribed retention time window. The analyte concentration is confirmed if the relative percent deviation (RPD) between the primary and confirmatory columns is ≤ 40%.

Method Detection Limit (MDL) The MDL is the minimum concentration of a substance that can be measured within a given matrix and reported at the 99% confidence level that the analyte concentration is greater than zero (per 40 CFR 136 App. B). The MDL is obtained by seven replicate analyses of a matrix at an analyte concentration level which is two to five times the estimated MDL. The MDL is defined as 3.14
times the standard deviation of the replicate sample results. Because of the high uncertainty at low concentrations, MDLs are expressed to only one significant figure. Analytical results which indicate no detection of analyte are expressed with the less than (<) qualifier followed by the MDL (e.g., < 2 mg/L)

Method Quantitation Limit (MQL) The MQL is defined as ten times the standard deviation determined from the MDL study (approximately 3.18 times the MDL).

Laboratory Reporting Limit (LRL) The LRL is a reporting limit which may be based on a project-specific reporting limit, a regulatory action level, or the laboratory's MDL. In the absence of project-specific requirements, the LRL is set at approximately three to ten times the MDL (at or slightly above the MQL). Typically, the LRL defines the concentration of the lowest standard used during calibration; in any case, the LRL should never be lower than the lowest calibration standard. It is impractical to exactly match the concentrations of multi-analyte standard solutions (e.g., VOAs, SVOAs, pesticides, ICP metals) to the calculated LRLs for each individual analyte. Actual LRLs, therefore, are sometimes defined by the concentration of the lowest calibration standard (although they are never less than the calculated LRL). Analytical values which are greater than the MDL but less than the LRL are expressed with the qualifier "J", indicating that they are only estimated values.

Sample Detection Limit (SDL) The Sample Detection Limit (SDL) is the MDL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal MDL (i.e., moisture content of a soil or sediment).

Sample Quantitation Limit (SQL) The Sample Quantitation Limit (SQL) is the MQL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal MQL (i.e., moisture content of a soil or sediment).

Sample Reporting Limit (SRL) The Sample Reporting Limit (SRL) is the LRL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal LRL (i.e., moisture content of a soil or sediment).

SWDL Analytical Result Qualifiers:

| | |
|---|---|
| < | Indicates that the analytical result is **less than** the following value, e.g., "< 2 mg/L" means that the sample contained less than 2 mg/L of the analyte. The **less than** symbol is typically associated with detection limit values. |
| > | Indicates that the analytical result is **greater than** the following value, e.g., "> 2000 µg/L" means that the sample contained more than 2000 µg/L of the analyte. The **greater than** symbol is typically associated with analytical values which greatly exceeded the upper calibration limit of the analysis. |
| J | Indicates that the result is an **estimated value**, e.g., "J 23 mg/Kg" means that the sample contained approximately 23 mg/Kg of the analyte. The "J" flag indicates that there is a 99% confidence that the analyte is present (i.e., above the detection limit), but that the actual quantitated value has a higher degree of uncertainty than may be implied based upon the significant figures used in the result. In the example above, the "J" flag indicates that the uncertainty in the result is greater than the ±1 mg/Kg that the significant figures would imply. The "J" flag is applied to values which lie between the detection limit and the reporting limit. |
| B | Indicates that the analyte was also found in the method blank. |
| E | Indicates that the result is an estimated value because it **exceeded the upper calibration limit** of the test, e.g., "E 4000 µg/Kg" indicates that the sample contained approximately 4000 µg/Kg of the analyte. |
| UC | Indicates that the presence of the analyte was **unconfirmed** by a secondary analysis. This may mean that a secondary analysis was not performed, or that a secondary analysis failed to detect the analyte, or that the analyte was detected with a secondary analysis, but failed to reproduce the quantitated result to within ± 35% of the original value. |
| HT | Indicates that the analysis was not performed within a required maximum **holding time**. This may mean that the maximum holding time prior to extraction or digestion was exceeded, or that the maximum holding time prior to analysis was exceeded, or both. |
| MSA | Indicates that the analysis was performed using the **method of standard additions**. Usually this applies to samples where a preliminary analysis reveals the presence of a matrix effect which interferes with the accurate analysis of the sample (i.e., a "matrix interference"). This flag is typically seen in metals analyses performed via graphite furnace atomic absorption spectrophotometry (GFAA). |
| MI | Indicates that the result is missing or is an estimated value because the analyst noted the presence of a **matrix interference** which interfered with the accurate analysis of the sample. |

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-1
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-1 TB02
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 111 % |
| Dibromofluoromethane (SS) | | 115 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-1
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-1 TB02
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

03652

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-2
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-2 LF-W11
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8054-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8054-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 112 % |
| Dibromofluoromethane (SS) | | 114 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-2
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-2 LF-W11
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-3
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-3 LF-W15
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 147 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.0250 mg/L | 0.0689 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 1.75 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0098 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-3 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 837 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.0056 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.171 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0921 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.120 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 317 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |

REPORT NUMBER : D97-8054-3 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 61.0 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 1290 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 8.50 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 2000 mg/L | 7410 mg/L |
| Dilution Factor : 2000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.204 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0200 mg/L | 0.0666 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-3 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.548 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.712 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-3
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-3 LF-W15
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-40

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-3
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 80.0 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-3
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-3 LF-W15
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
PREPARATION METHOD : EPA 3510B
PREPARED BY : TDC
PREPARED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-74A

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

REPORT NUMBER : D97-8054-3
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 38.5 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 53.2 % |

Applicable results are reported on Dry Weight basis.



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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-3 LF-W15
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8054-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 106 % |
| 1,2-Dichloroethane-d4 (SS) | | 109 % |
| Dibromofluoromethane (SS) | | 114 % |

Applicable results are reported on Dry Weight basis.



03667

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-3
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-3 LF-W15
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

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ADDRESS : 4815 Cass St.
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-3 LF-W15
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : GWG
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-37

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8054-3
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-8054-3
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8054-3 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 74.6 % |
| 2-Fluorobiphenyl (SS) | | 80.4 % |
| Terphenyl-d14 (SS) | | 50.0 % |
| Phenol-d6 (SS) | | 73.2 % |
| 2-Fluorophenol (SS) | | 59.5 % |
| 2,4,6-Tribromophenol (SS) | | 86.8 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

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REPORT NUMBER : D97-8054-3
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-3 LF-W15
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-37

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-4 LF-W21
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 81.9 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.125 mg/L | 0.394 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 2.07 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0076 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-4 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 790 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.130 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0677 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0501 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 0.100 mg/L | 167 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0003 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-4 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | 40.2 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 0.500 mg/L | 282 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 12.3 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 500 mg/L | 2920 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.259 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0400 mg/L | 0.142 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-4 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.158 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.528 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-4 LF-W21
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-40

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | 5.31 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-4
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 83.9 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-4 LF-W21
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
PREPARATION METHOD : EPA 3510B
PREPARED BY : TDC
PREPARED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-74A

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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03680

REPORT NUMBER : D97-8054-4
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 50.2 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 50.0 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-4 LF-W21
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



03683

REPORT NUMBER : D97-8054-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 119 % |
| 1,2-Dichloroethane-d4 (SS) | | 113 % |
| Dibromofluoromethane (SS) | | 116 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-4 LF-W21
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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ITS Intertek Testing Services
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SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-4 LF-W21
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : GWG
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-37

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8054-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | |
|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < | 10.0 µg/L |
| Carbazole | 10.0 µg/L | < | 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < | 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < | 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < | 10.0 µg/L |
| Chrysene | 10.0 µg/L | < | 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < | 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < | 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < | 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < | 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < | 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < | 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < | 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < | 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < | 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < | 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < | 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < | 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < | 10.0 µg/L |
| Fluorene | 10.0 µg/L | < | 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < | 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < | 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < | 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < | 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < | 10.0 µg/L |
| Isophorone | 10.0 µg/L | < | 10.0 µg/L |



Intertek Testing Services NA Inc.
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REPORT NUMBER : D97-8054-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2-Methylnaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| Naphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 3-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| Nitrobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodiphenylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodi-n-propylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| Phenanthrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2,4-Trichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzoic acid | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Chloro-3-methylphenol | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dimethylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2,4-Dinitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitrophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Nitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Pentachlorophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Phenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,5-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,6-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-8054-4 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 83.6 % |
| 2-Fluorobiphenyl (SS) | | 80.0 % |
| Terphenyl-d14 (SS) | | 45.0 % |
| Phenol-d6 (SS) | | 79.0 % |
| 2-Fluorophenol (SS) | | 57.0 % |
| 2,4,6-Tribromophenol (SS) | | 47.9 % |

Applicable results are reported on Dry Weight basis.



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Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-4 LF-W21
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 4-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-37

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-5
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-5 LF-W18
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 119 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.0250 mg/L | 0.0709 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 1.34 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0053 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-5 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 1710 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.0889 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0787 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0767 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 0.100 mg/L | 129 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0004 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |

REPORT NUMBER : D97-8054-5 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 50.0 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 786 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 5.90 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 1000 mg/L | 5660 mg/L |
| Dilution Factor : 1000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.133 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0400 mg/L | 0.122 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-5 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.183 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.538 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-5
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-5 LF-W18
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 108 % |
| Bromofluorobenzene (SS) | | 105 % |
| 1,2-Dichloroethane-d4 (SS) | | 98.0 % |
| Dibromofluoromethane (SS) | | 90.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-5
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-5 LF-W18
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-6
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-6 LF-W19
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 65.4 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 1.52 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0034 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-6 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 1690 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.0622 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0412 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0437 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 0.100 mg/L | 98.5 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0004 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |

REPORT NUMBER : D97-8054-6 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | 45.2 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 0.500 mg/L | 409 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.0100 mg/L | 5.21 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 1000 mg/L | 4290 mg/L |
| Dilution Factor : 1000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.0888 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0200 mg/L | 0.0434 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-6 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.104 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.411 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-6
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-6 LF-W19
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8054-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8054-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 106 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 115 % |
| Dibromofluoromethane (SS) | | 118 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-6
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-6 LF-W19
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-7
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-7 LF-W22
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 296 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.125 mg/L | 0.236 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 2.11 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0307 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-7 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 2260 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.510 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.248 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.116 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 814 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0006 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-7 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 106 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 0.500 mg/L | 202 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 17.3 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 500 mg/L | 2480 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.653 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.100 mg/L | 0.336 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-7 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.432 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 2.41 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-7
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-7 LF-W22
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 1,2-Dibromo-3-chloropropane | 25.0 | µg/L | < | 25.0 | µg/L |
| 1,2-Dibromoethane | 5.00 | µg/L | < | 5.00 | µg/L |
| 1,2-Dichlorobenzene | 5.00 | µg/L | < | 5.00 | µg/L |
| 1,3-Dichlorobenzene | 5.00 | µg/L | < | 5.00 | µg/L |
| 1,4-Dichlorobenzene | 5.00 | µg/L | < | 5.00 | µg/L |
| trans-1,4-Dichloro-2-butene | 100 | µg/L | < | 100 | µg/L |
| 1,1-Dichloroethane | 5.00 | µg/L | < | 5.00 | µg/L |
| 1,2-Dichloroethane | 5.00 | µg/L | < | 5.00 | µg/L |
| 1,1-Dichloroethene | 5.00 | µg/L | < | 5.00 | µg/L |
| cis-1,2-Dichloroethene | 5.00 | µg/L | < | 5.00 | µg/L |
| trans-1,2-Dichloroethene | 5.00 | µg/L | < | 5.00 | µg/L |
| 1,2-Dichloropropane | 5.00 | µg/L | < | 5.00 | µg/L |
| 2,2-Dichloropropane | 5.00 | µg/L | < | 5.00 | µg/L |
| 1,1-Dichloropropene | 5.00 | µg/L | < | 5.00 | µg/L |
| 1,3-Dichloropropane | 5.00 | µg/L | < | 5.00 | µg/L |
| cis-1,3-Dichloropropene | 5.00 | µg/L | < | 5.00 | µg/L |
| trans-1,3-Dichloropropene | 5.00 | µg/L | < | 5.00 | µg/L |
| Ethylbenzene | 5.00 | µg/L | < | 5.00 | µg/L |
| 2-Hexanone | 50.0 | µg/L | < | 50.0 | µg/L |
| Bromomethane | 5.00 | µg/L | < | 5.00 | µg/L |
| Chloromethane | 5.00 | µg/L | < | 5.00 | µg/L |
| Dibromomethane | 5.00 | µg/L | < | 5.00 | µg/L |
| 2-Butanone | 100 | µg/L | < | 100 | µg/L |
| Iodomethane | 5.00 | µg/L | < | 5.00 | µg/L |
| Methylene chloride | 5.00 | µg/L | < | 5.00 | µg/L |
| 4-Methyl-2-pentanone | 100 | µg/L | < | 100 | µg/L |



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REPORT NUMBER : D97-8054-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 102 % |
| 1,2-Dichloroethane-d4 (SS) | | 109 % |
| Dibromofluoromethane (SS) | | 111 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-7
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-7 LF-W22
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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03714

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-8 LF-W31
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 230 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.0250 mg/L | 0.145 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 1.40 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0166 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

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REPORT NUMBER : D97-8054-8 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 784 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.255 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.248 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.103 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 651 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0006 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-8 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 94.7 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 612 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 8.53 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 1000 mg/L | 4220 mg/L |
| Dilution Factor : 1000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.324 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.100 mg/L | 0.176 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-8 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.386 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 2.29 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-8 LF-W31
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 105 % |
| 1,2-Dichloroethane-d4 (SS) | | 108 % |
| Dibromofluoromethane (SS) | | 108 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-8 LF-W31
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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03722

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-9 LF-W32
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 152 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.0500 mg/L | 0.157 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 0.428 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0151 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

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REPORT NUMBER : D97-8054-9 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 3130 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.320 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.188 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0723 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 1810 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0021 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-9 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 98.9 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 0.500 mg/L | 183 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 1.00 mg/L | 282 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 500 mg/L | 4150 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.437 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.100 mg/L | 0.503 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-9 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.253 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 2.43 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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1089 East Collins Boulevard Richardson, TX 75081
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-9 LF-W32
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8054-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 102 % |
| 1,2-Dichloroethane-d4 (SS) | | 112 % |
| Dibromofluoromethane (SS) | | 112 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-9 LF-W32
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-10 LF-W27
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | 0.157 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 305 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.125 mg/L | 0.392 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 0.923 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0347 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-10 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 1250 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.141 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.658 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.386 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 3.09 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 1410 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0044 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-10 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 163 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 1060 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 16.8 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 1000 mg/L | 5560 mg/L |
| Dilution Factor : 1000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.715 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 5.00 mg/L | 13.5 mg/L |
| Dilution Factor : 2500<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-10 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | 1.21 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.469 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 9.54 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-10 LF-W27
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-10
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-10
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 107 % |
| 1,2-Dichloroethane-d4 (SS) | | 113 % |
| Dibromofluoromethane (SS) | | 111 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-10 LF-W27
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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Telephone (972) 238-5591 Fax (972) 238-5592

03738

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-11 LF-W28
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 184 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.100 mg/L | 0.160 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 0.613 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0264 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-11 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 0.50 mg/L | 394 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.0103 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.900 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0747 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 555 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0011 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |

REPORT NUMBER : D97-8054-11 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 97.4 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 2170 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 24.5 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 2000 mg/L | 9040 mg/L |
| Dilution Factor : 2000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.879 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0800 mg/L | 0.143 mg/L |
| Dilution Factor : 40<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 12-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-11 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.190 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 3.25 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-11 LF-W28
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-11 PAGE 3
ANALYSIS METHOD : EPA 8260 /1

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 108 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 117 % |
| Dibromofluoromethane (SS) | | 114 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-11 LF-W28
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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Telephone (972) 238-5591 Fax (972) 238-5592

03746

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-12 LFW-W25
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.150 mg/L | 0.342 mg/L |
| Dilution Factor : 30<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 1.09 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0350 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-12 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 3330 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.0069 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.564 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.537 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.227 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 1580 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0011 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |

REPORT NUMBER : D97-8054-12 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 157 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 876 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 10.9 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 1000 mg/L | 5420 mg/L |
| Dilution Factor : 1000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.675 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.100 mg/L | 0.406 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-12 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.808 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 4.17 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-12 LFW-W25
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8054-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 108 % |
| 1,2-Dichloroethane-d4 (SS) | | 111 % |
| Dibromofluoromethane (SS) | | 112 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-12 LFW-W25
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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03754

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-13 LF-W26
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 130 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.125 mg/L | 0.429 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 0.634 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0305 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-13 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 0.50 mg/L | 312 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.606 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0962 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0590 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 717 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0049 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-13 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 111 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 1040 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 9.90 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 2000 mg/L | 7300 mg/L |
| Dilution Factor : 2000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.493 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0800 mg/L | 0.160 mg/L |
| Dilution Factor : 40<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 12-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-13 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.199 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 2.60 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-13 LF-W26
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8054-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8054-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 116 % |
| Dibromofluoromethane (SS) | | 116 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-13 LF-W26
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-13 LF-W26
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : GWG
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-37

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8054-13
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Butyl benzyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Carbazole | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chloroaniline | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chloronaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Chrysene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenz(a,h)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenzofuran | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-butylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,3-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,4-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 3,3'-Dichlorobenzidine | 20.0 | µg/L | < | 20.0 | µg/L |
| Diethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Dimethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,6-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-octylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluorene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobutadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorocyclopentadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachloroethane | 10.0 | µg/L | < | 10.0 | µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Isophorone | 10.0 | µg/L | < | 10.0 | µg/L |



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REPORT NUMBER : D97-8054-13
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | |
|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < | 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < | 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < | 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < | 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < | 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < | 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < | 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < | 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < | 10.0 µg/L |
| Pyrene | 10.0 µg/L | < | 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < | 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < | 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < | 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < | 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < | 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < | 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < | 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < | 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < | 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < | 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < | 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < | 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < | 50.0 µg/L |
| Phenol | 10.0 µg/L | < | 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < | 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < | 10.0 µg/L |

REPORT NUMBER : D97-8054-13 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 76.6 % |
| 2-Fluorobiphenyl (SS) | | 76.2 % |
| Terphenyl-d14 (SS) | | 49.0 % |
| Phenol-d6 (SS) | | 78.3 % |
| 2-Fluorophenol (SS) | | 63.2 % |
| 2,4,6-Tribromophenol (SS) | | 86.9 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-13 LF-W26
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-37

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | |
|---|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT | |
| 4-Heptanone, 3-methyl- | 17.11 | ABN | 90 | ug/L |
| Silane, ethenyldiethylmethyl- | 20.96 | ABN | 27 | ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-14 LF-W10
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 221 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.125 mg/L | 0.310 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 1.90 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0154 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-14 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 3530 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.0054 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.245 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.157 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.223 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 443 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |

REPORT NUMBER : D97-8054-14 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 70.3 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 787 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 16.3 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 500 mg/L | 3470 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.252 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.100 mg/L | 0.506 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-14 LF-W10
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-40

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | 0.536 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-14 PAGE 2
ANALYSIS METHOD : EPA 8150 /1

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 107 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-14 LF-W10
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | 10.9 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8054-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 106 % |
| 1,2-Dichloroethane-d4 (SS) | | 113 % |
| Dibromofluoromethane (SS) | | 113 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-14 LF-W10
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-14 LF-W10
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : GWG
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-37

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8054-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Butyl benzyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Carbazole | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chloroaniline | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chloronaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 | µg/L | < | 10.0 | µg/L |
| Chrysene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenz(a,h)anthracene | 10.0 | µg/L | < | 10.0 | µg/L |
| Dibenzofuran | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-butylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,3-Dichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,4-Dichlorobenzene | 10.0 | µg/L | | 40.0 | µg/L |
| 3,3'-Dichlorobenzidine | 20.0 | µg/L | < | 20.0 | µg/L |
| Diethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Dimethyl phthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,6-Dinitrotoluene | 10.0 | µg/L | < | 10.0 | µg/L |
| Di-n-octylphthalate | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluoranthene | 10.0 | µg/L | < | 10.0 | µg/L |
| Fluorene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorobutadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachlorocyclopentadiene | 10.0 | µg/L | < | 10.0 | µg/L |
| Hexachloroethane | 10.0 | µg/L | < | 10.0 | µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Isophorone | 10.0 | µg/L | < | 10.0 | µg/L |



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REPORT NUMBER : D97-8054-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8054-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 71.6 % |
| 2-Fluorobiphenyl (SS) | | 71.8 % |
| Terphenyl-d14 (SS) | | 36.4 % |
| Phenol-d6 (SS) | | 73.0 % |
| 2-Flucrophenol (SS) | | 59.8 % |
| 2,4,6-Tribromophenol (SS) | | 76.8 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-14 LF-W10
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-37

| TENTATIVELY IDENTIFIED COMPOUNDS | | | | |
|---|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT | |
| Ethane, 1,1'-oxybis[2-ethoxy-] | 5.63 | ABN | 68 | ug/L |
| Phenol, m-tert-butyl- | 8.29 | ABN | 10 | ug/L |
| Diethyltoluamide | 11.37 | ABN | 27 | ug/L |
| Benzenesulfonyl chloride, 4-methyl | 12.17 | ABN | 19 | ug/L |
| 2(3H)-Benzothiazolone | 12.48 | ABN | 22 | ug/L |
| 1-Penten-3-ol, 2-methyl- | 17.11 | ABN | 15 | ug/L |
| 3,6,9,12-Tetraoxahexadecan-1-ol | 17.93 | ABN | 74 | ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-15 LF-W17
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 276 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.0500 mg/L | 0.201 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 1.36 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0151 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-15 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 812 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.163 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.184 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.143 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 447 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0007 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-15 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 93.4 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 50.0 mg/L | 907 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.0100 mg/L | 3.64 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 2000 mg/L | 7930 mg/L |
| Dilution Factor : 2000<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.209 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0800 mg/L | 0.191 mg/L |
| Dilution Factor : 40<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 12-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-15 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.447 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 1.03 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-15 LF-W17
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-15
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8054-15
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 113 % |
| Dibromofluoromethane (SS) | | 113 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-15 LF-W17
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

03790

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-16 LF-W16
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 204 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.125 mg/L | 0.292 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 0.885 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0211 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-16 PAGE 2

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Calcium | /1 | 50 mg/L | 7220 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | 0.0081 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.211 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.169 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.216 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 607 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-16 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 85.2 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 0.500 mg/L | 356 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 35.7 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 500 mg/L | 4190 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.306 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.100 mg/L | 0.551 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-16 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | 0.020 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.476 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.920 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-16 LF-W16
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8054-16
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8054-16
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 108 % |
| 1,2-Dichloroethane-d4 (SS) | | 113 % |
| Dibromofluoromethane (SS) | | 114 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-16 LF-W16
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

03798

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-17 LF-W12
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Aluminum | /1 | 0.100 mg/L | 221 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Arsenic | /1 | 0.125 mg/L | 0.320 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 10-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Barium | /1 | 0.0100 mg/L | 1.45 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Beryllium | /1 | 0.0030 mg/L | 0.0184 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-17 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 50 mg/L | 2000 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.253 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.201 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | 0.203 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 10.0 mg/L | 670 mg/L |
| Dilution Factor : 100<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0004 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-17 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 10.0 mg/L | 71.6 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 0.500 mg/L | 500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.100 mg/L | 15.3 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 500 mg/L | 4010 mg/L |
| Dilution Factor : 500<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 6-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.300 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0800 mg/L | 0.449 mg/L |
| Dilution Factor : 40<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 11-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-17 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.613 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | 1.32 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 4-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-17 LF-W12
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-17
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-17
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 111 % |
| Dibromofluoromethane (SS) | | 114 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-17 LF-W12
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
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Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-18 DR-SD1 EB
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | | RESULTS |
|---|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < | 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | | |
| Aluminum | /1 | 0.100 mg/L | < | 0.100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | | |
| Arsenic | /1 | 0.0050 mg/L | < | 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 8-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | | |
| Barium | /1 | 0.0100 mg/L | < | 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | | |
| Beryllium | /1 | 0.0030 mg/L | < | 0.0030 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | | |

REPORT NUMBER : D97-8054-18 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 0.50 mg/L | 0.68 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Cobalt | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Chromium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Copper | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Iron | /1 | 0.100 mg/L | < 0.100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 2-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 3-JUL-1997 by CGJ<br>QC Batch No : HG-3934 | | | |



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REPORT NUMBER : D97-8054-18 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | < 1.00 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Magnesium | /1 | 0.500 mg/L | < 0.500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Manganese | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Sodium | /1 | 1.00 mg/L | < 1.00 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Nickel | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Lead | /1 | 0.0020 mg/L | < 0.0020 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7421 on 8-JUL-1997 by AH<br>QC Batch No : AC159-04 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

REPORT NUMBER : D97-8054-18 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0250 mg/L | < 0.0250 mg/L |
| Dilution Factor : 5<br>Prepared using EPA 3020A on 7-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 17-JUL-1997 by GGD<br>QC Batch No : AC159-04 | | | |
| Selenium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Vanadium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |
| Zinc | /1 | 0.0200 mg/L | < 0.0200 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 1-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 3-JUL-1997 by GAY<br>QC Batch No : 17621 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-18 DR-SD1 EB
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 8150
PREPARED BY : KDF
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8150 /1
ANALYZED BY : MAK
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-40

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-18
ANALYSIS METHOD : EPA 8150 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 85.2 % |

Applicable results are reported on Dry Weight basis.



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## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-18 DR-SD1 EB
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3510B
PREPARED BY : TDC
PREPARED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-74A

| CHLORINATED PESTICIDES AND PCBS | | | |
|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS | |
| Aldrin | 0.0400 µg/L | < | 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < | 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < | 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < | 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < | 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < | 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < | 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < | 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < | 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < | 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < | 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < | 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < | 0.660 µg/L |
| Endrin | 0.0600 µg/L | < | 0.0600 µg/L |

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REPORT NUMBER : D97-8054-18
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 62.4 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 52.4 % |

Applicable results are reported on Dry Weight basis.



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## Environmental Laboratories

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REPORT NUMBER : D97-8054-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-18 DR-SD1 EB
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8054-18
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8054-18
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 106 % |
| Bromofluorobenzene (SS) | | 106 % |
| 1,2-Dichloroethane-d4 (SS) | | 112 % |
| Dibromofluoromethane (SS) | | 113 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-18 DR-SD1 EB
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
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REPORT NUMBER : D97-8054-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-18 DR-SD1 EB
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : GWG
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-37

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8054-18
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-8054-18
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2-Methylnaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| Naphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 3-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| Nitrobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodiphenylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodi-n-propylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| Phenanthrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2,4-Trichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzoic acid | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Chloro-3-methylphenol | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dimethylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2,4-Dinitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitrophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Nitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Pentachlorophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Phenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,5-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,6-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-8054-18
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 82.4 % |
| 2-Fluorobiphenyl (SS) | | 78.8 % |
| Terphenyl-d14 (SS) | | 79.4 % |
| Phenol-d6 (SS) | | 80.3 % |
| 2-Fluorophenol (SS) | | 60.5 % |
| 2,4,6-Tribromophenol (SS) | | 57.0 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-18 DR-SD1 EB
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 4-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-37

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-19
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-19 LF-W08
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707027002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8054-19
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8054-19
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 108 % |
| 1,2-Dichloroethane-d4 (SS) | | 115 % |
| Dibromofluoromethane (SS) | | 115 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-19
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70315-19 LF-W08
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707027002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-20 LF-SB19 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 85.2 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154018F

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-20 LF-SB19 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.7 mg/Kg | 9790 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.35 mg/Kg | 3.11 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.17 mg/Kg | 77.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-20 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.7 mg/Kg | 9830 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.17 mg/Kg | 5.01 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.59 mg/Kg | 9.40 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.17 mg/Kg | 5.13 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.7 mg/Kg | 11300 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.141 mg/Kg | < 0.141 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-20 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 235 mg/Kg | 2130 mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 117 mg/Kg | 2590 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.17 mg/Kg | 141 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 117 mg/Kg | 1120 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.17 mg/Kg | 8.77 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.587 mg/Kg | 8.13 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 5.87 mg/Kg | < 5.87 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-20 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.17 mg/Kg | < 1.17 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.17 mg/Kg | 19.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.35 mg/Kg | 34.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-20 LF-SB19 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.7 µg/Kg | < 58.7 µg/Kg |
| 2,4-DB | 58.7 µg/Kg | < 58.7 µg/Kg |
| 2,4,5-T | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2,4,5-TP(Silvex) | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dalapon | 235 µg/Kg | 290 µg/Kg |
| Dicamba | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dichlorprop | 58.7 µg/Kg | < 58.7 µg/Kg |
| Dinoseb | 23.5 µg/Kg | < 23.5 µg/Kg |
| MCPA | 23500 µg/Kg | < 23500 µg/Kg |
| MCPP | 23500 µg/Kg | < 23500 µg/Kg |



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REPORT NUMBER : D97-8054-20
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 68.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-20 LF-SB19 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.15 µg/Kg | < 3.15 µg/Kg |
| Alpha-BHC | 2.36 µg/Kg | < 2.36 µg/Kg |
| Beta-BHC | 4.72 µg/Kg | < 4.72 µg/Kg |
| Delta-BHC | 7.08 µg/Kg | < 7.08 µg/Kg |
| Gamma-BHC(Lindane) | 3.15 µg/Kg | < 3.15 µg/Kg |
| Chlordane | 11.0 µg/Kg | < 11.0 µg/Kg |
| 4,4'-DDD | 8.65 µg/Kg | < 8.65 µg/Kg |
| 4,4'-DDE | 3.15 µg/Kg | < 3.15 µg/Kg |
| 4,4'-DDT | 9.44 µg/Kg | < 9.44 µg/Kg |
| Dieldrin | 1.57 µg/Kg | < 1.57 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < 11.0 µg/Kg |
| Endosulfan II | 3.15 µg/Kg | < 3.15 µg/Kg |
| Endosulfan Sulfate | 51.9 µg/Kg | < 51.9 µg/Kg |
| Endrin | 4.72 µg/Kg | < 4.72 µg/Kg |



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REPORT NUMBER : D97-8054-20
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.1 µg/Kg | < 18.1 µg/Kg |
| Heptachlor | 2.36 µg/Kg | < 2.36 µg/Kg |
| Heptachlor Epoxide | 65.3 µg/Kg | < 65.3 µg/Kg |
| Methoxychlor | 138 µg/Kg | < 138 µg/Kg |
| Toxaphene | 189 µg/Kg | < 189 µg/Kg |
| Aroclor-1016 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1221 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1232 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1242 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1248 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1254 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1260 | 51.1 µg/Kg | < 51.1 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 91.6 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 81.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-20 LF-SB19 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.5 µg/Kg | < 23.5 µg/Kg |
| Acrylonitrile | 5.87 µg/Kg | < 5.87 µg/Kg |
| Benzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromochloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromodichloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromoform | 5.87 µg/Kg | < 5.87 µg/Kg |
| Carbon disulfide | 5.87 µg/Kg | < 5.87 µg/Kg |
| Carbon tetrachloride | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloroform | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Chlorotoluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 4-Chlorotoluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Chloroethylvinyl ether | 11.7 µg/Kg | < 11.7 µg/Kg |
| Dibromochloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |



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REPORT NUMBER : D97-8054-20
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.3 µg/Kg | < 29.3 µg/Kg |
| 1,2-Dibromoethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,4-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,4-Dichloro-2-butene | 117 µg/Kg | < 117 µg/Kg |
| 1,1-Dichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| cis-1,2-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,2-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2,2-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| cis-1,3-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,3-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Ethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Hexanone | 58.7 µg/Kg | < 58.7 µg/Kg |
| Bromomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dibromomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Butanone | 117 µg/Kg | < 117 µg/Kg |
| Iodomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Methylene chloride | 5.87 µg/Kg | < 5.87 µg/Kg |
| 4-Methyl-2-pentanone | 117 µg/Kg | < 117 µg/Kg |

REPORT NUMBER : D97-8054-20
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Tetrachloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Toluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,1-Trichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,2-Trichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Trichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Trichlorofluoromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,3-Trichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Vinyl acetate | 58.7 µg/Kg | < 58.7 µg/Kg |
| Vinyl chloride | 2.35 µg/Kg | < 2.35 µg/Kg |
| m,p-Xylene | 5.87 µg/Kg | < 5.87 µg/Kg |
| o-Xylene | 5.87 µg/Kg | < 5.87 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 105 % |
| Toluene-d8 (SS) | | 108 % |
| Bromofluorobenzene (SS) | | 95.0 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-20 LF-SB19 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-20 LF-SB19 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Acenaphthylene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Anthracene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(a)anthracene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(b)fluoranthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(k)fluoranthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(g,h,i)perylene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(a)pyrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzyl alcohol | 0.763 mg/Kg | < 0.763 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-chloroethyl)ether | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.387 mg/Kg | < 0.387 mg/Kg |



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REPORT NUMBER : D97-8054-20
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| Carbazole | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Chloroaniline | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2-Chloronaphthalene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.387 mg/Kg | < 0.387 mg/Kg |
| Chrysene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Dibenz(a,h)anthracene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Dibenzofuran | 0.387 mg/Kg | < 0.387 mg/Kg |
| Di-n-butylphthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| 1,2-Dichlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 1,3-Dichlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 1,4-Dichlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.387 mg/Kg | < 0.387 mg/Kg |
| Diethyl phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| Dimethyl phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,4-Dinitrotoluene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,6-Dinitrotoluene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Di-n-octylphthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| Fluoranthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Fluorene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Hexachlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Hexachlorobutadiene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Hexachlorocyclopentadiene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Hexachloroethane | 0.387 mg/Kg | < 0.387 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Isophorone | 0.387 mg/Kg | < 0.387 mg/Kg |

REPORT NUMBER : D97-8054-20
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Naphthalene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| 3-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| 4-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| Nitrobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| N-Nitrosodiphenylamine | 0.387 mg/Kg | < 0.387 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.387 mg/Kg | < 0.387 mg/Kg |
| Phenanthrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Pyrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzoic acid | 0.939 mg/Kg | < 0.939 mg/Kg |
| 4-Chloro-3-methylphenol | 0.763 mg/Kg | < 0.763 mg/Kg |
| 2-Chlorophenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,4-Dichlorophenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,4-Dimethylphenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2,4-Dinitrophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2-Methylphenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Methylphenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2-Nitrophenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Nitrophenol | 0.939 mg/Kg | < 0.939 mg/Kg |
| Pentachlorophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| Phenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,4,5-Trichlorophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2,4,6-Trichlorophenol | 0.387 mg/Kg | < 0.387 mg/Kg |

REPORT NUMBER : D97-8054-20
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 77.8 % |
| 2-Fluorobiphenyl (SS) | | 67.7 % |
| Terphenyl-d14 (SS) | | 64.1 % |
| Phenol-d6 (SS) | | 64.3 % |
| 2-Fluorophenol (SS) | | 69.4 % |
| 2,4,6-Tribromophenol (SS) | | 88.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-20 LF-SB19 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.387 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-21 LF-SB11 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | DETECTION LIMIT | RESULTS |
|---|---|---|
| Total Solids /1 | 0.01 % | 85.1 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154019G

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-21 LF-SB11 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.8 mg/Kg | 10000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.35 mg/Kg | 2.54 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.18 mg/Kg | 40.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-21 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.8 mg/Kg | 4600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.18 mg/Kg | 3.79 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.59 mg/Kg | 7.27 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.18 mg/Kg | 6.66 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.8 mg/Kg | 9000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.141 mg/Kg | < 0.141 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-21 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 2350 mg/Kg | 2810 mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 118 mg/Kg | 2550 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.18 mg/Kg | 174 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 2350 mg/Kg | 3030 mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.18 mg/Kg | 6.44 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.588 mg/Kg | 7.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 5.88 mg/Kg | < 5.88 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

REPORT NUMBER : D97-8054-21 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.18 mg/Kg | < 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.31 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.18 mg/Kg | 12.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.35 mg/Kg | 30.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-21 LF-SB11 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.15 µg/Kg | < 3.15 µg/Kg |
| Alpha-BHC | 2.36 µg/Kg | < 2.36 µg/Kg |
| Beta-BHC | 4.72 µg/Kg | < 4.72 µg/Kg |
| Delta-BHC | 7.09 µg/Kg | < 7.09 µg/Kg |
| Gamma-BHC(Lindane) | 3.15 µg/Kg | < 3.15 µg/Kg |
| Chlordane | 11.0 µg/Kg | < 11.0 µg/Kg |
| 4,4'-DDD | 8.66 µg/Kg | < 8.66 µg/Kg |
| 4,4'-DDE | 3.15 µg/Kg | < 3.15 µg/Kg |
| 4,4'-DDT | 9.45 µg/Kg | < 9.45 µg/Kg |
| Dieldrin | 1.57 µg/Kg | < 1.57 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < 11.0 µg/Kg |
| Endosulfan II | 3.15 µg/Kg | < 3.15 µg/Kg |
| Endosulfan Sulfate | 52.0 µg/Kg | < 52.0 µg/Kg |
| Endrin | 4.72 µg/Kg | < 4.72 µg/Kg |

REPORT NUMBER : D97-8054-21
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.1 µg/Kg | < 18.1 µg/Kg |
| Heptachlor | 2.36 µg/Kg | < 2.36 µg/Kg |
| Heptachlor Epoxide | 65.3 µg/Kg | < 65.3 µg/Kg |
| Methoxychlor | 139 µg/Kg | < 139 µg/Kg |
| Toxaphene | 189 µg/Kg | < 189 µg/Kg |
| Aroclor-1016 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1221 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1232 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1242 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1248 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1254 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1260 | 51.2 µg/Kg | < 51.2 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 95.6 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 87.7 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-21 LF-SB11 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.5 µg/Kg | < 23.5 µg/Kg |
| Acrylonitrile | 5.88 µg/Kg | < 5.88 µg/Kg |
| Benzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromochloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromodichloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromoform | 5.88 µg/Kg | < 5.88 µg/Kg |
| Carbon disulfide | 5.88 µg/Kg | < 5.88 µg/Kg |
| Carbon tetrachloride | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloroform | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Chlorotoluene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 4-Chlorotoluene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Chloroethylvinyl ether | 11.8 µg/Kg | < 11.8 µg/Kg |
| Dibromochloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |



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REPORT NUMBER : D97-8054-21
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.4 µg/Kg | < 29.4 µg/Kg |
| 1,2-Dibromoethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,3-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,4-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,4-Dichloro-2-butene | 118 µg/Kg | < 118 µg/Kg |
| 1,1-Dichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| cis-1,2-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,2-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2,2-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,3-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| cis-1,3-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,3-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Ethylbenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Hexanone | 58.8 µg/Kg | < 58.8 µg/Kg |
| Bromomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Dibromomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Butanone | 118 µg/Kg | < 118 µg/Kg |
| Iodomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Methylene chloride | 5.88 µg/Kg | < 5.88 µg/Kg |
| 4-Methyl-2-pentanone | 118 µg/Kg | < 118 µg/Kg |

REPORT NUMBER : D97-8054-21
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Tetrachloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Toluene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1,1-Trichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1,2-Trichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Trichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Trichlorofluoromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2,3-Trichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Vinyl acetate | 58.8 µg/Kg | < 58.8 µg/Kg |
| Vinyl chloride | 2.35 µg/Kg | < 2.35 µg/Kg |
| m,p-Xylene | 5.88 µg/Kg | < 5.88 µg/Kg |
| o-Xylene | 5.88 µg/Kg | < 5.88 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 105 % |
| Toluene-d8 (SS) | | 109 % |
| Bromofluorobenzene (SS) | | 94.4 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-21 LF-SB11 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Ethane, 1,1,2-trichloro-1,2,2-trif | 2.83 | VOA | 6.2 ug/Kg |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

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REPORT NUMBER : D97-8054-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-21 LF-SB11 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Acenaphthylene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Anthracene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(a)anthracene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(b)fluoranthene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(k)fluoranthene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(g,h,i)perylene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(a)pyrene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzyl alcohol | 0.764 mg/Kg | < 0.764 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.388 mg/Kg | < 0.388 mg/Kg |
| Bis(2-chloroethyl)ether | 0.388 mg/Kg | < 0.388 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.388 mg/Kg | < 0.388 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.388 mg/Kg | < 0.388 mg/Kg |



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REPORT NUMBER : D97-8054-21
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| Carbazole | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Chloroaniline | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2-Chloronaphthalene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.388 mg/Kg | < 0.388 mg/Kg |
| Chrysene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Dibenz(a,h)anthracene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Dibenzofuran | 0.388 mg/Kg | < 0.388 mg/Kg |
| Di-n-butylphthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| 1,2-Dichlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 1,3-Dichlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 1,4-Dichlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.388 mg/Kg | < 0.388 mg/Kg |
| Diethyl phthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| Dimethyl phthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,4-Dinitrotoluene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,6-Dinitrotoluene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Di-n-octylphthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| Fluoranthene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Fluorene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Hexachlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Hexachlorobutadiene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Hexachlorocyclopentadiene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Hexachloroethane | 0.388 mg/Kg | < 0.388 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Isophorone | 0.388 mg/Kg | < 0.388 mg/Kg |

REPORT NUMBER : D97-8054-21
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Naphthalene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| 3-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| 4-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| Nitrobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| N-Nitrosodiphenylamine | 0.388 mg/Kg | < 0.388 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.388 mg/Kg | < 0.388 mg/Kg |
| Phenanthrene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Pyrene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzoic acid | 0.940 mg/Kg | < 0.940 mg/Kg |
| 4-Chloro-3-methylphenol | 0.764 mg/Kg | < 0.764 mg/Kg |
| 2-Chlorophenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,4-Dichlorophenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,4-Dimethylphenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2,4-Dinitrophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2-Methylphenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Methylphenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2-Nitrophenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Nitrophenol | 0.940 mg/Kg | < 0.940 mg/Kg |
| Pentachlorophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| Phenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,4,5-Trichlorophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2,4,6-Trichlorophenol | 0.388 mg/Kg | < 0.388 mg/Kg |



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REPORT NUMBER : D97-8054-21
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 76.7 % |
| 2-Fluorobiphenyl (SS) | | 68.3 % |
| Terphenyl-d14 (SS) | | 70.1 % |
| Phenol-d6 (SS) | | 61.0 % |
| 2-Fluorophenol (SS) | | 61.3 % |
| 2,4,6-Tribromophenol (SS) | | 84.1 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-21 LF-SB11 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.388 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-22 LF-SB11 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 85.0 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154019G | | | |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-22 LF-SB11 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.8 mg/Kg | 8230 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.35 mg/Kg | 4.67 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.18 mg/Kg | 114 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.44 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-22 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.8 mg/Kg | 8170 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.18 mg/Kg | 3.33 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.59 mg/Kg | 6.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.18 mg/Kg | 4.19 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.8 mg/Kg | 8590 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.141 mg/Kg | < 0.141 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-22 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 235 | mg/Kg | 1980 | mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Magnesium | /1 | 118 | mg/Kg | 2250 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Manganese | /1 | 1.18 | mg/Kg | 146 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Sodium | /1 | 2350 | mg/Kg | 3270 | mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Nickel | /1 | 1.18 | mg/Kg | 5.68 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Lead | /1 | 0.588 | mg/Kg | 6.62 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Antimony | /1 | 5.88 | mg/Kg | < 5.88 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |



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REPORT NUMBER : D97-8054-22 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.18 mg/Kg | < 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.52 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.18 mg/Kg | 18.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.35 mg/Kg | 21.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-22 LF-SB11 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | | | |
|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Aldrin | 3.15 | µg/Kg | < 3.15 | µg/Kg |
| Alpha-BHC | 2.36 | µg/Kg | < 2.36 | µg/Kg |
| Beta-BHC | 4.73 | µg/Kg | < 4.73 | µg/Kg |
| Delta-BHC | 7.09 | µg/Kg | < 7.09 | µg/Kg |
| Gamma-BHC(Lindane) | 3.15 | µg/Kg | < 3.15 | µg/Kg |
| Chlordane | 11.0 | µg/Kg | < 11.0 | µg/Kg |
| 4,4'-DDD | 8.67 | µg/Kg | < 8.67 | µg/Kg |
| 4,4'-DDE | 3.15 | µg/Kg | < 3.15 | µg/Kg |
| 4,4'-DDT | 9.46 | µg/Kg | < 9.46 | µg/Kg |
| Dieldrin | 1.58 | µg/Kg | < 1.58 | µg/Kg |
| Endosulfan I | 11.0 | µg/Kg | < 11.0 | µg/Kg |
| Endosulfan II | 3.15 | µg/Kg | < 3.15 | µg/Kg |
| Endosulfan Sulfate | 52.0 | µg/Kg | < 52.0 | µg/Kg |
| Endrin | 4.73 | µg/Kg | < 4.73 | µg/Kg |



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REPORT NUMBER : D97-8054-22
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.1 | µg/Kg | < | 18.1 | µg/Kg |
| Heptachlor | 2.36 | µg/Kg | < | 2.36 | µg/Kg |
| Heptachlor Epoxide | 65.4 | µg/Kg | < | 65.4 | µg/Kg |
| Methoxychlor | 139 | µg/Kg | < | 139 | µg/Kg |
| Toxaphene | 189 | µg/Kg | < | 189 | µg/Kg |
| Aroclor-1016 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1221 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1232 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1242 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1248 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1254 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1260 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |

| QUALITY CONTROL DATA | | | |
|---|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED | |
| Decachlorobiphenyl (SS) | | 92.7 | % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 82.2 | % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-22 LF-SB11 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.5 µg/Kg | < 23.5 µg/Kg |
| Acrylonitrile | 5.88 µg/Kg | < 5.88 µg/Kg |
| Benzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromochloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromodichloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromoform | 5.88 µg/Kg | < 5.88 µg/Kg |
| Carbon disulfide | 5.88 µg/Kg | < 5.88 µg/Kg |
| Carbon tetrachloride | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloroform | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Chlorotoluene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 4-Chlorotoluene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Chloroethylvinyl ether | 11.8 µg/Kg | < 11.8 µg/Kg |
| Dibromochloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |



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REPORT NUMBER : D97-8054-22
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.4 µg/Kg | < 29.4 µg/Kg |
| 1,2-Dibromoethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,3-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,4-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,4-Dichloro-2-butene | 118 µg/Kg | < 118 µg/Kg |
| 1,1-Dichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| cis-1,2-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,2-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2,2-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,3-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| cis-1,3-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,3-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Ethylbenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Hexanone | 58.8 µg/Kg | < 58.8 µg/Kg |
| Bromomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Dibromomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Butanone | 118 µg/Kg | < 118 µg/Kg |
| Iodomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Methylene chloride | 5.88 µg/Kg | < 5.88 µg/Kg |
| 4-Methyl-2-pentanone | 118 µg/Kg | < 118 µg/Kg |

REPORT NUMBER : D97-8054-22
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | | | |
|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | |
| Styrene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| Tetrachloroethene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| Toluene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,2,3-Trichlorobenzene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,2,4-Trichlorobenzene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,1,1-Trichloroethane | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,1,2-Trichloroethane | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| Trichloroethene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| Trichlorofluoromethane | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,2,3-Trichloropropane | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,3,5-Trimethylbenzene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| 1,2,4-Trimethylbenzene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| Vinyl acetate | 58.8 | µg/Kg | < 58.8 | µg/Kg |
| Vinyl chloride | 2.35 | µg/Kg | < 2.35 | µg/Kg |
| m,p-Xylene | 5.88 | µg/Kg | < 5.88 | µg/Kg |
| o-Xylene | 5.88 | µg/Kg | < 5.88 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 106 % |
| Toluene-d8 (SS) | | 109 % |
| Bromofluorobenzene (SS) | | 96.6 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-22 LF-SB11 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-22
REPORT DATE : 31-JUL-1997

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ADDRESS : 4815 Cass St.
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-22 LF-SB11 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Acenaphthylene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Anthracene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(a)anthracene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(b)fluoranthene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(k)fluoranthene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(g,h,i)perylene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzo(a)pyrene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzyl alcohol | 0.765 mg/Kg | < 0.765 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.388 mg/Kg | < 0.388 mg/Kg |
| Bis(2-chloroethyl)ether | 0.388 mg/Kg | < 0.388 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.388 mg/Kg | < 0.388 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.388 mg/Kg | < 0.388 mg/Kg |



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REPORT NUMBER : D97-8054-22
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| Carbazole | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Chloroaniline | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2-Chloronaphthalene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.388 mg/Kg | < 0.388 mg/Kg |
| Chrysene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Dibenz(a,h)anthracene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Dibenzofuran | 0.388 mg/Kg | < 0.388 mg/Kg |
| Di-n-butylphthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| 1,2-Dichlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 1,3-Dichlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 1,4-Dichlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.388 mg/Kg | < 0.388 mg/Kg |
| Diethyl phthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| Dimethyl phthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,4-Dinitrotoluene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,6-Dinitrotoluene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Di-n-octylphthalate | 0.388 mg/Kg | < 0.388 mg/Kg |
| Fluoranthene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Fluorene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Hexachlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Hexachlorobutadiene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Hexachlorocyclopentadiene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Hexachloroethane | 0.388 mg/Kg | < 0.388 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Isophorone | 0.388 mg/Kg | < 0.388 mg/Kg |

REPORT NUMBER : D97-8054-22
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Naphthalene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| 3-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| 4-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| Nitrobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| N-Nitrosodiphenylamine | 0.388 mg/Kg | < 0.388 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.388 mg/Kg | < 0.388 mg/Kg |
| Phenanthrene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Pyrene | 0.388 mg/Kg | < 0.388 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.388 mg/Kg | < 0.388 mg/Kg |
| Benzoic acid | 0.941 mg/Kg | < 0.941 mg/Kg |
| 4-Chloro-3-methylphenol | 0.765 mg/Kg | < 0.765 mg/Kg |
| 2-Chlorophenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,4-Dichlorophenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,4-Dimethylphenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2,4-Dinitrophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2-Methylphenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Methylphenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2-Nitrophenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 4-Nitrophenol | 0.941 mg/Kg | < 0.941 mg/Kg |
| Pentachlorophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| Phenol | 0.388 mg/Kg | < 0.388 mg/Kg |
| 2,4,5-Trichlorophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2,4,6-Trichlorophenol | 0.388 mg/Kg | < 0.388 mg/Kg |



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REPORT NUMBER : D97-8054-22
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 63.5 % |
| 2-Fluorobiphenyl (SS) | | 61.1 % |
| Terphenyl-d14 (SS) | | 62.9 % |
| Phenol-d6 (SS) | | 52.9 % |
| 2-Fluorophenol (SS) | | 57.4 % |
| 2,4,6-Tribromophenol (SS) | | 81.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-22 LF-SB11 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.388 mg/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-23 LF-SB11 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| MISCELLANEOUS ANALYSES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 84.8 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154019G | | |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-23 LF-SB11 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.3 mg/Kg | 8790 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.36 mg/Kg | 3.82 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.18 mg/Kg | 14.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.44 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-23 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59.0 mg/Kg | 22800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.18 mg/Kg | 2.85 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.59 mg/Kg | 6.86 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.18 mg/Kg | 3.74 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.8 mg/Kg | 8100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.142 mg/Kg | < 0.142 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-23 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 236 mg/Kg | 1950 mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 118 mg/Kg | 2690 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.18 mg/Kg | 101 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 2360 mg/Kg | 2730 mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.18 mg/Kg | 4.95 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.590 mg/Kg | 5.90 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 5.90 mg/Kg | < 5.90 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-23 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.18 mg/Kg | < 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.24 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.18 mg/Kg | 15.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.36 mg/Kg | 20.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-23 LF-SB11 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.16 µg/Kg | < 3.16 µg/Kg |
| Alpha-BHC | 2.37 µg/Kg | < 2.37 µg/Kg |
| Beta-BHC | 4.74 µg/Kg | < 4.74 µg/Kg |
| Delta-BHC | 7.11 µg/Kg | < 7.11 µg/Kg |
| Gamma-BHC(Lindane) | 3.16 µg/Kg | < 3.16 µg/Kg |
| Chlordane | 11.1 µg/Kg | < 11.1 µg/Kg |
| 4,4'-DDD | 8.69 µg/Kg | < 8.69 µg/Kg |
| 4,4'-DDE | 3.16 µg/Kg | < 3.16 µg/Kg |
| 4,4'-DDT | 9.48 µg/Kg | < 9.48 µg/Kg |
| Dieldrin | 1.58 µg/Kg | < 1.58 µg/Kg |
| Endosulfan I | 11.1 µg/Kg | < 11.1 µg/Kg |
| Endosulfan II | 3.16 µg/Kg | < 3.16 µg/Kg |
| Endosulfan Sulfate | 52.1 µg/Kg | < 52.1 µg/Kg |
| Endrin | 4.74 µg/Kg | < 4.74 µg/Kg |



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REPORT NUMBER : D97-8054-23
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.2 | µg/Kg | < | 18.2 | µg/Kg |
| Heptachlor | 2.37 | µg/Kg | < | 2.37 | µg/Kg |
| Heptachlor Epoxide | 65.6 | µg/Kg | < | 65.6 | µg/Kg |
| Methoxychlor | 139 | µg/Kg | < | 139 | µg/Kg |
| Toxaphene | 190 | µg/Kg | < | 190 | µg/Kg |
| Aroclor-1016 | 51.4 | µg/Kg | < | 51.4 | µg/Kg |
| Aroclor-1221 | 51.4 | µg/Kg | < | 51.4 | µg/Kg |
| Aroclor-1232 | 51.4 | µg/Kg | < | 51.4 | µg/Kg |
| Aroclor-1242 | 51.4 | µg/Kg | < | 51.4 | µg/Kg |
| Aroclor-1248 | 51.4 | µg/Kg | < | 51.4 | µg/Kg |
| Aroclor-1254 | 51.4 | µg/Kg | < | 51.4 | µg/Kg |
| Aroclor-1260 | 51.4 | µg/Kg | < | 51.4 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 92.6 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 82.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-23 LF-SB11 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.6 µg/Kg | < 23.6 µg/Kg |
| Acrylonitrile | 5.90 µg/Kg | < 5.90 µg/Kg |
| Benzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Bromobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Bromochloromethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Bromodichloromethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Bromoform | 5.90 µg/Kg | < 5.90 µg/Kg |
| Carbon disulfide | 5.90 µg/Kg | < 5.90 µg/Kg |
| Carbon tetrachloride | 5.90 µg/Kg | < 5.90 µg/Kg |
| Chlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Chloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Chloroform | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2-Chlorotoluene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 4-Chlorotoluene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2-Chloroethylvinyl ether | 11.8 µg/Kg | < 11.8 µg/Kg |
| Dibromochloromethane | 5.90 µg/Kg | < 5.90 µg/Kg |

REPORT NUMBER : D97-8054-23
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.5 µg/Kg | < 29.5 µg/Kg |
| 1,2-Dibromoethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2-Dichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,3-Dichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,4-Dichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| trans-1,4-Dichloro-2-butene | 118 µg/Kg | < 118 µg/Kg |
| 1,1-Dichloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2-Dichloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1-Dichloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| cis-1,2-Dichloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| trans-1,2-Dichloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2-Dichloropropane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2,2-Dichloropropane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1-Dichloropropene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,3-Dichloropropane | 5.90 µg/Kg | < 5.90 µg/Kg |
| cis-1,3-Dichloropropene | 5.90 µg/Kg | < 5.90 µg/Kg |
| trans-1,3-Dichloropropene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Ethylbenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2-Hexanone | 59.0 µg/Kg | < 59.0 µg/Kg |
| Bromomethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Chloromethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Dibromomethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2-Butanone | 118 µg/Kg | < 118 µg/Kg |
| Iodomethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Methylene chloride | 5.90 µg/Kg | < 5.90 µg/Kg |
| 4-Methyl-2-pentanone | 118 µg/Kg | < 118 µg/Kg |

REPORT NUMBER : D97-8054-23
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Tetrachloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Toluene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1,1-Trichloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1,2-Trichloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Trichloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Trichlorofluoromethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2,3-Trichloropropane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Vinyl acetate | 59.0 µg/Kg | < 59.0 µg/Kg |
| Vinyl chloride | 2.36 µg/Kg | < 2.36 µg/Kg |
| m,p-Xylene | 5.90 µg/Kg | < 5.90 µg/Kg |
| o-Xylene | 5.90 µg/Kg | < 5.90 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 89.6 % |
| Toluene-d8 (SS) | | 91.2 % |
| Bromofluorobenzene (SS) | | 92.6 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-23 LF-SB11 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| 6-Octen-1-ol, 3,7-dimethyl-, aceta | 13.21 | VOA | 8.1 ug/Kg |

Applicable results are reported on Dry Weight basis.

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SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-23 LF-SB11 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Acenaphthylene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Anthracene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Benzo(a)anthracene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Benzo(b)fluoranthene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Benzo(k)fluoranthene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Benzo(g,h,i)perylene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Benzo(a)pyrene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Benzyl alcohol | 0.767 mg/Kg | < 0.767 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.389 mg/Kg | < 0.389 mg/Kg |
| Bis(2-chloroethyl)ether | 0.389 mg/Kg | < 0.389 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.389 mg/Kg | < 0.389 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.389 mg/Kg | < 0.389 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.389 mg/Kg | < 0.389 mg/Kg |



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REPORT NUMBER : D97-8054-23
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.389 mg/Kg | < 0.389 mg/Kg |
| Carbazole | 0.389 mg/Kg | < 0.389 mg/Kg |
| 4-Chloroaniline | 0.389 mg/Kg | < 0.389 mg/Kg |
| 2-Chloronaphthalene | 0.389 mg/Kg | < 0.389 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.389 mg/Kg | < 0.389 mg/Kg |
| Chrysene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Dibenz(a,h)anthracene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Dibenzofuran | 0.389 mg/Kg | < 0.389 mg/Kg |
| Di-n-butylphthalate | 0.389 mg/Kg | < 0.389 mg/Kg |
| 1,2-Dichlorobenzene | 0.389 mg/Kg | < 0.389 mg/Kg |
| 1,3-Dichlorobenzene | 0.389 mg/Kg | < 0.389 mg/Kg |
| 1,4-Dichlorobenzene | 0.389 mg/Kg | < 0.389 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.389 mg/Kg | < 0.389 mg/Kg |
| Diethyl phthalate | 0.389 mg/Kg | < 0.389 mg/Kg |
| Dimethyl phthalate | 0.389 mg/Kg | < 0.389 mg/Kg |
| 2,4-Dinitrotoluene | 0.389 mg/Kg | < 0.389 mg/Kg |
| 2,6-Dinitrotoluene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Di-n-octylphthalate | 0.389 mg/Kg | < 0.389 mg/Kg |
| Fluoranthene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Fluorene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Hexachlorobenzene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Hexachlorobutadiene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Hexachlorocyclopentadiene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Hexachloroethane | 0.389 mg/Kg | < 0.389 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Isophorone | 0.389 mg/Kg | < 0.389 mg/Kg |

REPORT NUMBER : D97-8054-23
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Naphthalene | 0.389 mg/Kg | < 0.389 mg/Kg |
| 2-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 3-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 4-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| Nitrobenzene | 0.389 mg/Kg | < 0.389 mg/Kg |
| N-Nitrosodiphenylamine | 0.389 mg/Kg | < 0.389 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.389 mg/Kg | < 0.389 mg/Kg |
| Phenanthrene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Pyrene | 0.389 mg/Kg | < 0.389 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.389 mg/Kg | < 0.389 mg/Kg |
| Benzoic acid | 0.943 mg/Kg | < 0.943 mg/Kg |
| 4-Chloro-3-methylphenol | 0.767 mg/Kg | < 0.767 mg/Kg |
| 2-Chlorophenol | 0.389 mg/Kg | < 0.389 mg/Kg |
| 2,4-Dichlorophenol | 0.389 mg/Kg | < 0.389 mg/Kg |
| 2,4-Dimethylphenol | 0.389 mg/Kg | < 0.389 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4-Dinitrophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2-Methylphenol | 0.389 mg/Kg | < 0.389 mg/Kg |
| 4-Methylphenol | 0.389 mg/Kg | < 0.389 mg/Kg |
| 2-Nitrophenol | 0.389 mg/Kg | < 0.389 mg/Kg |
| 4-Nitrophenol | 0.943 mg/Kg | < 0.943 mg/Kg |
| Pentachlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| Phenol | 0.389 mg/Kg | < 0.389 mg/Kg |
| 2,4,5-Trichlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4,6-Trichlorophenol | 0.389 mg/Kg | < 0.389 mg/Kg |



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REPORT NUMBER : D97-8054-23
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 75.5 % |
| 2-Fluorobiphenyl (SS) | | 68.3 % |
| Terphenyl-d14 (SS) | | 64.7 % |
| Phenol-d6 (SS) | | 62.5 % |
| 2-Fluorophenol (SS) | | 62.8 % |
| 2,4,6-Tribromophenol (SS) | | 81.7 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-23 LF-SB11 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.389 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-24 LF-SB6 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 92.8 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154019G

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 54.5 % |
| 2-Fluorobiphenyl (SS) | | 56.9 % |
| Terphenyl-d14 (SS) | | 64.1 % |
| Phenol-d6 (SS) | | 74.8 % |
| 2-Fluorophenol (SS) | | 65.5 % |
| 2,4,6-Tribromophenol (SS) | | 38.7 % |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
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REPORT NUMBER : D97-8054-30 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.13 mg/Kg | < 1.13 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.54 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.1 mg/Kg | < 1.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.13 mg/Kg | 12.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.27 mg/Kg | 20.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-30
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-30 LF-SB2 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 56.6 µg/Kg | < 56.6 µg/Kg |
| 2,4-DB | 56.6 µg/Kg | < 56.6 µg/Kg |
| 2,4,5-T | 5.66 µg/Kg | < 5.66 µg/Kg |
| 2,4,5-TP(Silvex) | 5.66 µg/Kg | < 5.66 µg/Kg |
| Dalapon | 227 µg/Kg | < 227 µg/Kg |
| Dicamba | 5.66 µg/Kg | < 5.66 µg/Kg |
| Dichlorprop | 56.6 µg/Kg | < 56.6 µg/Kg |
| Dinoseb | 22.7 µg/Kg | < 22.7 µg/Kg |
| MCPA | 22700 µg/Kg | < 22700 µg/Kg |
| MCPP | 22700 µg/Kg | < 22700 µg/Kg |



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REPORT NUMBER : D97-8054-30
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 88.6 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-30
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-30 LF-SB2 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Aldrin | 3.04 | µg/Kg | < | 3.04 | µg/Kg |
| Alpha-BHC | 2.28 | µg/Kg | < | 2.28 | µg/Kg |
| Beta-BHC | 4.55 | µg/Kg | < | 4.55 | µg/Kg |
| Delta-BHC | 6.83 | µg/Kg | < | 6.83 | µg/Kg |
| Gamma-BHC(Lindane) | 3.04 | µg/Kg | < | 3.04 | µg/Kg |
| Chlordane | 10.6 | µg/Kg | < | 10.6 | µg/Kg |
| 4,4'-DDD | 8.35 | µg/Kg | < | 8.35 | µg/Kg |
| 4,4'-DDE | 3.04 | µg/Kg | < | 3.04 | µg/Kg |
| 4,4'-DDT | 9.11 | µg/Kg | < | 9.11 | µg/Kg |
| Dieldrin | 1.52 | µg/Kg | < | 1.52 | µg/Kg |
| Endosulfan I | 10.6 | µg/Kg | < | 10.6 | µg/Kg |
| Endosulfan II | 3.04 | µg/Kg | < | 3.04 | µg/Kg |
| Endosulfan Sulfate | 50.1 | µg/Kg | < | 50.1 | µg/Kg |
| Endrin | 4.55 | µg/Kg | < | 4.55 | µg/Kg |



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REPORT NUMBER : D97-8054-30
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 17.5 | µg/Kg | < | 17.5 | µg/Kg |
| Heptachlor | 2.28 | µg/Kg | < | 2.28 | µg/Kg |
| Heptachlor Epoxide | 63.0 | µg/Kg | < | 63.0 | µg/Kg |
| Methoxychlor | 134 | µg/Kg | < | 134 | µg/Kg |
| Toxaphene | 182 | µg/Kg | < | 182 | µg/Kg |
| Aroclor-1016 | 49.3 | µg/Kg | < | 49.3 | µg/Kg |
| Aroclor-1221 | 49.3 | µg/Kg | < | 49.3 | µg/Kg |
| Aroclor-1232 | 49.3 | µg/Kg | < | 49.3 | µg/Kg |
| Aroclor-1242 | 49.3 | µg/Kg | < | 49.3 | µg/Kg |
| Aroclor-1248 | 49.3 | µg/Kg | < | 49.3 | µg/Kg |
| Aroclor-1254 | 49.3 | µg/Kg | < | 49.3 | µg/Kg |
| Aroclor-1260 | 49.3 | µg/Kg | < | 49.3 | µg/Kg |

| QUALITY CONTROL DATA | | | |
|---|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED | |
| Decachlorobiphenyl (SS) | | 90.5 | % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 66.9 | % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-30
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-30 LF-SB2 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707081002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 22.7 µg/Kg | < 22.7 µg/Kg |
| Acrylonitrile | 5.66 µg/Kg | < 5.66 µg/Kg |
| Benzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| Bromobenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| Bromochloromethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| Bromodichloromethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| Bromoform | 5.66 µg/Kg | < 5.66 µg/Kg |
| Carbon disulfide | 5.66 µg/Kg | < 5.66 µg/Kg |
| Carbon tetrachloride | 5.66 µg/Kg | < 5.66 µg/Kg |
| Chlorobenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| Chloroethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| Chloroform | 5.66 µg/Kg | < 5.66 µg/Kg |
| 2-Chlorotoluene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 4-Chlorotoluene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 2-Chloroethylvinyl ether | 11.3 µg/Kg | < 11.3 µg/Kg |
| Dibromochloromethane | 5.66 µg/Kg | < 5.66 µg/Kg |



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REPORT NUMBER : D97-8054-30
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 28.3 µg/Kg | < 28.3 µg/Kg |
| 1,2-Dibromoethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,2-Dichlorobenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,3-Dichlorobenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,4-Dichlorobenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| trans-1,4-Dichloro-2-butene | 113 µg/Kg | < 113 µg/Kg |
| 1,1-Dichloroethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,2-Dichloroethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,1-Dichloroethene | 5.66 µg/Kg | < 5.66 µg/Kg |
| cis-1,2-Dichloroethene | 5.66 µg/Kg | < 5.66 µg/Kg |
| trans-1,2-Dichloroethene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,2-Dichloropropane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 2,2-Dichloropropane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,1-Dichloropropene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,3-Dichloropropane | 5.66 µg/Kg | < 5.66 µg/Kg |
| cis-1,3-Dichloropropene | 5.66 µg/Kg | < 5.66 µg/Kg |
| trans-1,3-Dichloropropene | 5.66 µg/Kg | < 5.66 µg/Kg |
| Ethylbenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 2-Hexanone | 56.6 µg/Kg | < 56.6 µg/Kg |
| Bromomethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| Chloromethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| Dibromomethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 2-Butanone | 113 µg/Kg | < 113 µg/Kg |
| Iodomethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| Methylene chloride | 5.66 µg/Kg | < 5.66 µg/Kg |
| 4-Methyl-2-pentanone | 113 µg/Kg | < 113 µg/Kg |

REPORT NUMBER : D97-8054-30
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| Tetrachloroethene | 5.66 µg/Kg | < 5.66 µg/Kg |
| Toluene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,1,1-Trichloroethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,1,2-Trichloroethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| Trichloroethene | 5.66 µg/Kg | < 5.66 µg/Kg |
| Trichlorofluoromethane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,2,3-Trichloropropane | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.66 µg/Kg | < 5.66 µg/Kg |
| Vinyl acetate | 56.6 µg/Kg | < 56.6 µg/Kg |
| Vinyl chloride | 2.27 µg/Kg | < 2.27 µg/Kg |
| m,p-Xylene | 5.66 µg/Kg | < 5.66 µg/Kg |
| o-Xylene | 5.66 µg/Kg | < 5.66 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 108 % |
| Toluene-d8 (SS) | | 106 % |
| Bromofluorobenzene (SS) | | 111 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-30
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-30 LF-SB2 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707081002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Undecane | 11.59 | VOA | 19 ug/Kg |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-30
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-30 LF-SB2 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Acenaphthylene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Anthracene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Benzo(a)anthracene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Benzo(b)fluoranthene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Benzo(k)fluoranthene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Benzo(g,h,i)perylene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Benzo(a)pyrene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Benzyl alcohol | 0.736 mg/Kg | < 0.736 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.374 mg/Kg | < 0.374 mg/Kg |
| Bis(2-chloroethyl)ether | 0.374 mg/Kg | < 0.374 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.374 mg/Kg | < 0.374 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.374 mg/Kg | < 0.374 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.374 mg/Kg | < 0.374 mg/Kg |



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REPORT NUMBER : D97-8054-30
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.374 mg/Kg | < 0.374 mg/Kg |
| Carbazole | 0.374 mg/Kg | < 0.374 mg/Kg |
| 4-Chloroaniline | 0.374 mg/Kg | < 0.374 mg/Kg |
| 2-Chloronaphthalene | 0.374 mg/Kg | < 0.374 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.374 mg/Kg | < 0.374 mg/Kg |
| Chrysene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Dibenz(a,h)anthracene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Dibenzofuran | 0.374 mg/Kg | < 0.374 mg/Kg |
| Di-n-butylphthalate | 0.374 mg/Kg | < 0.374 mg/Kg |
| 1,2-Dichlorobenzene | 0.374 mg/Kg | < 0.374 mg/Kg |
| 1,3-Dichlorobenzene | 0.374 mg/Kg | < 0.374 mg/Kg |
| 1,4-Dichlorobenzene | 0.374 mg/Kg | < 0.374 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.374 mg/Kg | < 0.374 mg/Kg |
| Diethyl phthalate | 0.374 mg/Kg | < 0.374 mg/Kg |
| Dimethyl phthalate | 0.374 mg/Kg | < 0.374 mg/Kg |
| 2,4-Dinitrotoluene | 0.374 mg/Kg | < 0.374 mg/Kg |
| 2,6-Dinitrotoluene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Di-n-octylphthalate | 0.374 mg/Kg | < 0.374 mg/Kg |
| Fluoranthene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Fluorene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Hexachlorobenzene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Hexachlorobutadiene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Hexachlorocyclopentadiene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Hexachloroethane | 0.374 mg/Kg | < 0.374 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Isophorone | 0.374 mg/Kg | < 0.374 mg/Kg |

REPORT NUMBER : D97-8054-30
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Naphthalene | 0.374 mg/Kg | < 0.374 mg/Kg |
| 2-Nitroaniline | 1.87 mg/Kg | < 1.87 mg/Kg |
| 3-Nitroaniline | 1.87 mg/Kg | < 1.87 mg/Kg |
| 4-Nitroaniline | 1.87 mg/Kg | < 1.87 mg/Kg |
| Nitrobenzene | 0.374 mg/Kg | < 0.374 mg/Kg |
| N-Nitrosodiphenylamine | 0.374 mg/Kg | < 0.374 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.374 mg/Kg | < 0.374 mg/Kg |
| Phenanthrene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Pyrene | 0.374 mg/Kg | < 0.374 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.374 mg/Kg | < 0.374 mg/Kg |
| Benzoic acid | 0.906 mg/Kg | < 0.906 mg/Kg |
| 4-Chloro-3-methylphenol | 0.736 mg/Kg | < 0.736 mg/Kg |
| 2-Chlorophenol | 0.374 mg/Kg | < 0.374 mg/Kg |
| 2,4-Dichlorophenol | 0.374 mg/Kg | < 0.374 mg/Kg |
| 2,4-Dimethylphenol | 0.374 mg/Kg | < 0.374 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.87 mg/Kg | < 1.87 mg/Kg |
| 2,4-Dinitrophenol | 1.87 mg/Kg | < 1.87 mg/Kg |
| 2-Methylphenol | 0.374 mg/Kg | < 0.374 mg/Kg |
| 4-Methylphenol | 0.374 mg/Kg | 1.45 mg/Kg |
| 2-Nitrophenol | 0.374 mg/Kg | < 0.374 mg/Kg |
| 4-Nitrophenol | 0.906 mg/Kg | < 0.906 mg/Kg |
| Pentachlorophenol | 1.87 mg/Kg | < 1.87 mg/Kg |
| Phenol | 0.374 mg/Kg | < 0.374 mg/Kg |
| 2,4,5-Trichlorophenol | 1.87 mg/Kg | < 1.87 mg/Kg |
| 2,4,6-Trichlorophenol | 0.374 mg/Kg | < 0.374 mg/Kg |



03907

REPORT NUMBER : D97-8054-30
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 64.7 % |
| 2-Fluorobiphenyl (SS) | | 59.4 % |
| Terphenyl-d14 (SS) | | 77.3 % |
| Phenol-d6 (SS) | | 69.7 % |
| 2-Fluorophenol (SS) | | 61.0 % |
| 2,4,6-Tribromophenol (SS) | | 72.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-30
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-30 LF-SB2 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Pentanoic acid, 2-methyl- | 5.23 | ABN | 0.45 mg/Kg |
| Butanoic acid, 3-methyl- | 5.86 | ABN | 0.61 mg/Kg |
| Hexanoic acid, 2-ethyl- | 6.40 | ABN | 1.4 mg/Kg |
| Pentane, 2-chloro-2-methyl- | 6.48 | ABN | 0.78 mg/Kg |
| 4-Ketopimelic | 6.59 | ABN | 0.67 mg/Kg |
| Pyridine, 3-(1-methyl-2-pyrrolidin | 8.94 | ABN | 0.78 mg/Kg |
| Anthracene, 2-methyl- | 10.85 | ABN | 0.57 mg/Kg |
| Diethyltoluamide | 11.35 | ABN | 1.2 mg/Kg |
| Isoquinoline | 15.81 | ABN | 0.62 mg/Kg |
| 1,2-Benzenediacetonitrile | 15.94 | ABN | 0.59 mg/Kg |
| Pentanedioic acid, 2-methyl-, bis( | 16.02 | ABN | 2.0 mg/Kg |
| Sulfur, mol. (S8) | 17.13 | ABN | 6.1 mg/Kg |
| Cyclohexanone, 4-(methylthio)- | 17.85 | ABN | 0.91 mg/Kg |
| Octadecanoic acid | 18.05 | ABN | 0.60 mg/Kg |
| Hexadecane, 2,6,11,15-tetramethyl- | 18.65 | ABN | 1.12 mg/Kg |
| Cyclopropane, octyl- | 18.74 | ABN | 2.0 mg/Kg |
| 2-Propenenitrile, 3-phenyl-, (E)- | 18.87 | ABN | 0.55 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-31
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 86.8 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154020H | | | |

Applicable results are reported on Dry Weight basis.

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## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-31
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.5 mg/Kg | 4810 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 0.922 mg/Kg | 3.12 mg/Kg |
| Dilution Factor : 2<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.15 mg/Kg | 102 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.35 mg/Kg | < 0.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-31 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 57.6 mg/Kg | 16500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.15 mg/Kg | 2.14 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.58 mg/Kg | 4.42 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.15 mg/Kg | 6.51 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.5 mg/Kg | 6640 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.138 mg/Kg | 0.854 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-31 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 115 | mg/Kg | 1120 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Magnesium | /1 | 115 | mg/Kg | 1440 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Manganese | /1 | 1.15 | mg/Kg | 89.1 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Sodium | /1 | 115 | mg/Kg | 831 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Nickel | /1 | 1.15 | mg/Kg | 3.95 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Lead | /1 | 0.576 | mg/Kg | 7.23 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Antimony | /1 | 5.76 | mg/Kg | < 5.76 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |



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REPORT NUMBER : D97-8054-31 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.15 mg/Kg | < 1.15 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.55 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.15 mg/Kg | 12.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.30 mg/Kg | 28.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : KDF
PREPARED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 30-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1300
QC BATCH NO : AC141-94A

| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Aldrin | 6.18 | µg/Kg | < | 6.18 | µg/Kg |
| Alpha-BHC | 4.63 | µg/Kg | < | 4.63 | µg/Kg |
| Beta-BHC | 9.26 | µg/Kg | < | 9.26 | µg/Kg |
| Delta-BHC | 13.9 | µg/Kg | < | 13.9 | µg/Kg |
| Gamma-BHC(Lindane) | 6.18 | µg/Kg | < | 6.18 | µg/Kg |
| Chlordane | 21.6 | µg/Kg | < | 21.6 | µg/Kg |
| 4,4'-DDD | 17.0 | µg/Kg | < | 17.0 | µg/Kg |
| 4,4'-DDE | 6.18 | µg/Kg | < | 6.18 | µg/Kg |
| 4,4'-DDT | 18.5 | µg/Kg | < | 18.5 | µg/Kg |
| Dieldrin | 3.09 | µg/Kg | < | 3.09 | µg/Kg |
| Endosulfan I | 21.6 | µg/Kg | < | 21.6 | µg/Kg |
| Endosulfan II | 6.18 | µg/Kg | < | 6.18 | µg/Kg |
| Endosulfan Sulfate | 102 | µg/Kg | < | 102 | µg/Kg |
| Endrin | 9.26 | µg/Kg | < | 9.26 | µg/Kg |



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REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 35.5 | µg/Kg | < | 35.5 | µg/Kg |
| Heptachlor | 4.63 | µg/Kg | < | 4.63 | µg/Kg |
| Heptachlor Epoxide | 128 | µg/Kg | < | 128 | µg/Kg |
| Methoxychlor | 272 | µg/Kg | < | 272 | µg/Kg |
| Toxaphene | 371 | µg/Kg | < | 371 | µg/Kg |
| Aroclor-1016 | 100 | µg/Kg | < | 100 | µg/Kg |
| Aroclor-1221 | 100 | µg/Kg | < | 100 | µg/Kg |
| Aroclor-1232 | 100 | µg/Kg | < | 100 | µg/Kg |
| Aroclor-1242 | 100 | µg/Kg | < | 100 | µg/Kg |
| Aroclor-1248 | 100 | µg/Kg | < | 100 | µg/Kg |
| Aroclor-1254 | 100 | µg/Kg | < | 100 | µg/Kg |
| Aroclor-1260 | 100 | µg/Kg | < | 100 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 63.0 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 69.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-31
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.0 µg/Kg | 176 µg/Kg |
| Acrylonitrile | 5.76 µg/Kg | < 5.76 µg/Kg |
| Benzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| Bromobenzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| Bromochloromethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| Bromodichloromethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| Bromoform | 5.76 µg/Kg | < 5.76 µg/Kg |
| Carbon disulfide | 5.76 µg/Kg | < 5.76 µg/Kg |
| Carbon tetrachloride | 5.76 µg/Kg | < 5.76 µg/Kg |
| Chlorobenzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| Chloroethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| Chloroform | 5.76 µg/Kg | < 5.76 µg/Kg |
| 2-Chlorotoluene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 4-Chlorotoluene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 2-Chloroethylvinyl ether | 11.5 µg/Kg | < 11.5 µg/Kg |
| Dibromochloromethane | 5.76 µg/Kg | < 5.76 µg/Kg |



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REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 28.8 µg/Kg | < 28.8 µg/Kg |
| 1,2-Dibromoethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,2-Dichlorobenzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,3-Dichlorobenzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,4-Dichlorobenzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| trans-1,4-Dichloro-2-butene | 115 µg/Kg | < 115 µg/Kg |
| 1,1-Dichloroethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,2-Dichloroethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,1-Dichloroethene | 5.76 µg/Kg | < 5.76 µg/Kg |
| cis-1,2-Dichloroethene | 5.76 µg/Kg | < 5.76 µg/Kg |
| trans-1,2-Dichloroethene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,2-Dichloropropane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 2,2-Dichloropropane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,1-Dichloropropene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,3-Dichloropropane | 5.76 µg/Kg | < 5.76 µg/Kg |
| cis-1,3-Dichloropropene | 5.76 µg/Kg | < 5.76 µg/Kg |
| trans-1,3-Dichloropropene | 5.76 µg/Kg | < 5.76 µg/Kg |
| Ethylbenzene | 5.76 µg/Kg | 22.8 µg/Kg |
| 2-Hexanone | 57.6 µg/Kg | < 57.6 µg/Kg |
| Bromomethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| Chloromethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| Dibromomethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 2-Butanone | 115 µg/Kg | < 115 µg/Kg |
| Iodomethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| Methylene chloride | 5.76 µg/Kg | < 5.76 µg/Kg |
| 4-Methyl-2-pentanone | 115 µg/Kg | < 115 µg/Kg |

REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| Tetrachloroethene | 5.76 µg/Kg | < 5.76 µg/Kg |
| Toluene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,1,1-Trichloroethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,1,2-Trichloroethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| Trichloroethene | 5.76 µg/Kg | < 5.76 µg/Kg |
| Trichlorofluoromethane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,2,3-Trichloropropane | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.76 µg/Kg | < 5.76 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.76 µg/Kg | 21.3 µg/Kg |
| Vinyl acetate | 57.6 µg/Kg | < 57.6 µg/Kg |
| Vinyl chloride | 2.30 µg/Kg | < 2.30 µg/Kg |
| m,p-Xylene | 5.76 µg/Kg | 97.1 µg/Kg |
| o-Xylene | 5.76 µg/Kg | 44.9 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 85.4 % |
| Toluene-d8 (SS) | | 88.0 % |
| Bromofluorobenzene (SS) | | 92.6 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-31
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Bicyclo[2.2.1]heptan-2-one, 1,3,3- | 12.25 | VOA | 8.4 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-31
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Acenaphthylene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Anthracene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(a)anthracene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(b)fluoranthene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(k)fluoranthene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(g,h,i)perylene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(a)pyrene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzyl alcohol | 0.749 mg/Kg | < 0.749 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.380 mg/Kg | < 0.380 mg/Kg |
| Bis(2-chloroethyl)ether | 0.380 mg/Kg | < 0.380 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.380 mg/Kg | < 0.380 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.380 mg/Kg | 8.38 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.380 mg/Kg | < 0.380 mg/Kg |



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REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.380 mg/Kg | 1.51 mg/Kg |
| Carbazole | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Chloroaniline | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2-Chloronaphthalene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.380 mg/Kg | < 0.380 mg/Kg |
| Chrysene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Dibenz(a,h)anthracene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Dibenzofuran | 0.380 mg/Kg | < 0.380 mg/Kg |
| Di-n-butylphthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| 1,2-Dichlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 1,3-Dichlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 1,4-Dichlorobenzene | 0.380 mg/Kg | 0.402 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.380 mg/Kg | < 0.380 mg/Kg |
| Diethyl phthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| Dimethyl phthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,4-Dinitrotoluene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,6-Dinitrotoluene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Di-n-octylphthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| Fluoranthene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Fluorene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Hexachlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Hexachlorobutadiene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Hexachlorocyclopentadiene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Hexachloroethane | 0.380 mg/Kg | < 0.380 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Isophorone | 0.380 mg/Kg | < 0.380 mg/Kg |

REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Naphthalene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2-Nitroaniline | 1.90 mg/Kg | < 1.90 mg/Kg |
| 3-Nitroaniline | 1.90 mg/Kg | < 1.90 mg/Kg |
| 4-Nitroaniline | 1.90 mg/Kg | < 1.90 mg/Kg |
| Nitrobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| N-Nitrosodiphenylamine | 0.380 mg/Kg | < 0.380 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.380 mg/Kg | < 0.380 mg/Kg |
| Phenanthrene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Pyrene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzoic acid | 0.922 mg/Kg | < 0.922 mg/Kg |
| 4-Chloro-3-methylphenol | 0.749 mg/Kg | < 0.749 mg/Kg |
| 2-Chlorophenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,4-Dichlorophenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,4-Dimethylphenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.90 mg/Kg | < 1.90 mg/Kg |
| 2,4-Dinitrophenol | 1.90 mg/Kg | < 1.90 mg/Kg |
| 2-Methylphenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Methylphenol | 0.380 mg/Kg | 2.02 mg/Kg |
| 2-Nitrophenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Nitrophenol | 0.922 mg/Kg | < 0.922 mg/Kg |
| Pentachlorophenol | 1.90 mg/Kg | < 1.90 mg/Kg |
| Phenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,4,5-Trichlorophenol | 1.90 mg/Kg | < 1.90 mg/Kg |
| 2,4,6-Trichlorophenol | 0.380 mg/Kg | < 0.380 mg/Kg |



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REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 56.7 % |
| 2-Fluorobiphenyl (SS) | | 50.8 % |
| Terphenyl-d14 (SS) | | 71.3 % |
| Phenol-d6 (SS) | | 60.4 % |
| 2-Fluorophenol (SS) | | 54.1 % |
| 2,4,6-Tribromophenol (SS) | | 57.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-31
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /2
ANALYZED BY : VDL
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 10
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Acenaphthylene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Anthracene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Benzo(a)anthracene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Benzo(b)fluoranthene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Benzo(k)fluoranthene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Benzo(g,h,i)perylene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Benzo(a)pyrene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Benzyl alcohol | 7.49 mg/Kg | < 7.49 mg/Kg |
| Bis(2-chloroethoxy)methane | 3.80 mg/Kg | < 3.80 mg/Kg |
| Bis(2-chloroethyl)ether | 3.80 mg/Kg | < 3.80 mg/Kg |
| Bis(2-chloroisopropyl)ether | 3.80 mg/Kg | < 3.80 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 3.80 mg/Kg | 11.8 mg/Kg |
| 4-Bromophenyl phenyl ether | 3.80 mg/Kg | < 3.80 mg/Kg |



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REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 3.80 mg/Kg | < 3.80 mg/Kg |
| Carbazole | 3.80 mg/Kg | < 3.80 mg/Kg |
| 4-Chloroaniline | 3.80 mg/Kg | < 3.80 mg/Kg |
| 2-Chloronaphthalene | 3.80 mg/Kg | < 3.80 mg/Kg |
| 4-Chlorophenyl phenyl ether | 3.80 mg/Kg | < 3.80 mg/Kg |
| Chrysene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Dibenz(a,h)anthracene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Dibenzofuran | 3.80 mg/Kg | < 3.80 mg/Kg |
| Di-n-butylphthalate | 3.80 mg/Kg | < 3.80 mg/Kg |
| 1,2-Dichlorobenzene | 3.80 mg/Kg | < 3.80 mg/Kg |
| 1,3-Dichlorobenzene | 3.80 mg/Kg | < 3.80 mg/Kg |
| 1,4-Dichlorobenzene | 3.80 mg/Kg | < 3.80 mg/Kg |
| 3,3'-Dichlorobenzidine | 3.80 mg/Kg | < 3.80 mg/Kg |
| Diethyl phthalate | 3.80 mg/Kg | < 3.80 mg/Kg |
| Dimethyl phthalate | 3.80 mg/Kg | < 3.80 mg/Kg |
| 2,4-Dinitrotoluene | 3.80 mg/Kg | < 3.80 mg/Kg |
| 2,6-Dinitrotoluene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Di-n-octylphthalate | 3.80 mg/Kg | < 3.80 mg/Kg |
| Fluoranthene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Fluorene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Hexachlorobenzene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Hexachlorobutadiene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Hexachlorocyclopentadiene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Hexachloroethane | 3.80 mg/Kg | < 3.80 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Isophorone | 3.80 mg/Kg | < 3.80 mg/Kg |

REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Naphthalene | 3.80 mg/Kg | < 3.80 mg/Kg |
| 2-Nitroaniline | 19.0 mg/Kg | < 19.0 mg/Kg |
| 3-Nitroaniline | 19.0 mg/Kg | < 19.0 mg/Kg |
| 4-Nitroaniline | 19.0 mg/Kg | < 19.0 mg/Kg |
| Nitrobenzene | 3.80 mg/Kg | < 3.80 mg/Kg |
| N-Nitrosodiphenylamine | 3.80 mg/Kg | < 3.80 mg/Kg |
| N-Nitrosodi-n-propylamine | 3.80 mg/Kg | < 3.80 mg/Kg |
| Phenanthrene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Pyrene | 3.80 mg/Kg | < 3.80 mg/Kg |
| 1,2,4-Trichlorobenzene | 3.80 mg/Kg | < 3.80 mg/Kg |
| Benzoic acid | 9.22 mg/Kg | < 9.22 mg/Kg |
| 4-Chloro-3-methylphenol | 7.49 mg/Kg | < 7.49 mg/Kg |
| 2-Chlorophenol | 3.80 mg/Kg | < 3.80 mg/Kg |
| 2,4-Dichlorophenol | 3.80 mg/Kg | < 3.80 mg/Kg |
| 2,4-Dimethylphenol | 3.80 mg/Kg | < 3.80 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 19.0 mg/Kg | < 19.0 mg/Kg |
| 2,4-Dinitrophenol | 19.0 mg/Kg | < 19.0 mg/Kg |
| 2-Methylphenol | 3.80 mg/Kg | < 3.80 mg/Kg |
| 4-Methylphenol | 3.80 mg/Kg | < 3.80 mg/Kg |
| 2-Nitrophenol | 3.80 mg/Kg | < 3.80 mg/Kg |
| 4-Nitrophenol | 9.22 mg/Kg | < 9.22 mg/Kg |
| Pentachlorophenol | 19.0 mg/Kg | < 19.0 mg/Kg |
| Phenol | 3.80 mg/Kg | < 3.80 mg/Kg |
| 2,4,5-Trichlorophenol | 19.0 mg/Kg | < 19.0 mg/Kg |
| 2,4,6-Trichlorophenol | 3.80 mg/Kg | < 3.80 mg/Kg |



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-31
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Undecane | 5.91 | ABN | 1.6 mg/Kg |
| Dodecane | 7.17 | ABN | 1.2 mg/Kg |
| Nonane, 3-methyl- | 8.04 | ABN | 1.05 mg/Kg |
| Dodecane, 2,7,10-trimethyl- | 9.23 | ABN | 1.8 mg/Kg |
| Tetradecane | 9.51 | ABN | 2.1 mg/Kg |
| Heptadecane, 2,6,10,14-tetramethyl | 10.15 | ABN | 1.8 mg/Kg |
| Benzene, 1-methyl-4-(1-methylethyl | 11.29 | ABN | 1.5 mg/Kg |
| Heptadecane | 12.60 | ABN | 1.7 mg/Kg |
| Tetradecanoic acid | 13.41 | ABN | 2.0 mg/Kg |
| Hexadecanoic acid | 16.17 | ABN | 9.2 mg/Kg |
| Sulfur, mol. (S8) | 17.20 | ABN | 3.2 mg/Kg |
| Tridecane, 7-hexyl- | 17.49 | ABN | 2.8 mg/Kg |
| 9-Hexadecenoic acid | 17.89 | ABN | 4.5 mg/Kg |
| Octadecanoic acid | 18.12 | ABN | 4.1 mg/Kg |
| Eicosane | 18.41 | ABN | 3.7 mg/Kg |
| Nonadecane | 19.25 | ABN | 4.0 mg/Kg |
| Docosane | 20.02 | ABN | 3.9 mg/Kg |

REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 625/8270 /1



| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Heneicosane | 20.74 | ABN | 3.5 mg/Kg |
| Unknown hydrocarbon | 21.42 | ABN | 3.3 mg/Kg |
| Unknown hydrocarbon | 22.06 | ABN | 4.3 mg/Kg |
| Unknown hydrocarbon | 23.26 | ABN | 3.5 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-24 LF-SB6 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.54 mg/Kg | < 0.54 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 10.8 mg/Kg | 5130 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.16 mg/Kg | 6.94 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.08 mg/Kg | 117 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.32 mg/Kg | < 0.32 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

REPORT NUMBER : D97-8054-24 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 53.9 mg/Kg | 38100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.54 mg/Kg | < 0.54 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.08 mg/Kg | 2.14 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.54 mg/Kg | 3.99 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.08 mg/Kg | 2.62 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 10.8 mg/Kg | 5870 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.129 mg/Kg | < 0.129 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |



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REPORT NUMBER : D97-8054-24 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 108 | mg/Kg | 1400 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Magnesium | /1 | 108 | mg/Kg | 1910 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Manganese | /1 | 1.08 | mg/Kg | 104 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Sodium | /1 | 108 | mg/Kg | 1030 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Nickel | /1 | 1.08 | mg/Kg | 3.92 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Lead | /1 | 0.539 | mg/Kg | 4.66 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Antimony | /1 | 5.39 | mg/Kg | < 5.39 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |

REPORT NUMBER : D97-8054-24 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.08 mg/Kg | < 1.08 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGU<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.03 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.1 mg/Kg | < 1.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.08 mg/Kg | 13.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.16 mg/Kg | 14.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-24 LF-SB6 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 2.89 µg/Kg | < 2.89 µg/Kg |
| Alpha-BHC | 2.17 µg/Kg | < 2.17 µg/Kg |
| Beta-BHC | 4.33 µg/Kg | < 4.33 µg/Kg |
| Delta-BHC | 6.50 µg/Kg | < 6.50 µg/Kg |
| Gamma-BHC(Lindane) | 2.89 µg/Kg | < 2.89 µg/Kg |
| Chlordane | 10.1 µg/Kg | < 10.1 µg/Kg |
| 4,4'-DDD | 7.94 µg/Kg | < 7.94 µg/Kg |
| 4,4'-DDE | 2.89 µg/Kg | < 2.89 µg/Kg |
| 4,4'-DDT | 8.66 µg/Kg | < 8.66 µg/Kg |
| Dieldrin | 1.44 µg/Kg | < 1.44 µg/Kg |
| Endosulfan I | 10.1 µg/Kg | < 10.1 µg/Kg |
| Endosulfan II | 2.89 µg/Kg | < 2.89 µg/Kg |
| Endosulfan Sulfate | 47.7 µg/Kg | < 47.7 µg/Kg |
| Endrin | 4.33 µg/Kg | < 4.33 µg/Kg |

REPORT NUMBER : D97-8054-24
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 16.6 | µg/Kg | < | 16.6 | µg/Kg |
| Heptachlor | 2.17 | µg/Kg | < | 2.17 | µg/Kg |
| Heptachlor Epoxide | 59.9 | µg/Kg | < | 59.9 | µg/Kg |
| Methoxychlor | 127 | µg/Kg | < | 127 | µg/Kg |
| Toxaphene | 173 | µg/Kg | < | 173 | µg/Kg |
| Aroclor-1016 | 46.9 | µg/Kg | < | 46.9 | µg/Kg |
| Aroclor-1221 | 46.9 | µg/Kg | < | 46.9 | µg/Kg |
| Aroclor-1232 | 46.9 | µg/Kg | < | 46.9 | µg/Kg |
| Aroclor-1242 | 46.9 | µg/Kg | < | 46.9 | µg/Kg |
| Aroclor-1248 | 46.9 | µg/Kg | < | 46.9 | µg/Kg |
| Aroclor-1254 | 46.9 | µg/Kg | < | 46.9 | µg/Kg |
| Aroclor-1260 | 46.9 | µg/Kg | < | 46.9 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 98.0 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 89.1 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

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REPORT NUMBER : D97-8054-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-24 LF-SB6 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 21.6 µg/Kg | < 21.6 µg/Kg |
| Acrylonitrile | 5.39 µg/Kg | < 5.39 µg/Kg |
| Benzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| Bromobenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| Bromochloromethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| Bromodichloromethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| Bromoform | 5.39 µg/Kg | < 5.39 µg/Kg |
| Carbon disulfide | 5.39 µg/Kg | < 5.39 µg/Kg |
| Carbon tetrachloride | 5.39 µg/Kg | < 5.39 µg/Kg |
| Chlorobenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| Chloroethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| Chloroform | 5.39 µg/Kg | < 5.39 µg/Kg |
| 2-Chlorotoluene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 4-Chlorotoluene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 2-Chloroethylvinyl ether | 10.8 µg/Kg | < 10.8 µg/Kg |
| Dibromochloromethane | 5.39 µg/Kg | < 5.39 µg/Kg |

REPORT NUMBER : D97-8054-24
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 26.9 µg/Kg | < 26.9 µg/Kg |
| 1,2-Dibromoethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,2-Dichlorobenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,3-Dichlorobenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,4-Dichlorobenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| trans-1,4-Dichloro-2-butene | 108 µg/Kg | < 108 µg/Kg |
| 1,1-Dichloroethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,2-Dichloroethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,1-Dichloroethene | 5.39 µg/Kg | < 5.39 µg/Kg |
| cis-1,2-Dichloroethene | 5.39 µg/Kg | < 5.39 µg/Kg |
| trans-1,2-Dichloroethene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,2-Dichloropropane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 2,2-Dichloropropane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,1-Dichloropropene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,3-Dichloropropane | 5.39 µg/Kg | < 5.39 µg/Kg |
| cis-1,3-Dichloropropene | 5.39 µg/Kg | < 5.39 µg/Kg |
| trans-1,3-Dichloropropene | 5.39 µg/Kg | < 5.39 µg/Kg |
| Ethylbenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 2-Hexanone | 53.9 µg/Kg | < 53.9 µg/Kg |
| Bromomethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| Chloromethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| Dibromomethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 2-Butanone | 108 µg/Kg | < 108 µg/Kg |
| Iodomethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| Methylene chloride | 5.39 µg/Kg | < 5.39 µg/Kg |
| 4-Methyl-2-pentanone | 108 µg/Kg | < 108 µg/Kg |

REPORT NUMBER : D97-8054-24
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| Tetrachloroethene | 5.39 µg/Kg | < 5.39 µg/Kg |
| Toluene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,1,1-Trichloroethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,1,2-Trichloroethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| Trichloroethene | 5.39 µg/Kg | < 5.39 µg/Kg |
| Trichlorofluoromethane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,2,3-Trichloropropane | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.39 µg/Kg | < 5.39 µg/Kg |
| Vinyl acetate | 53.9 µg/Kg | < 53.9 µg/Kg |
| Vinyl chloride | 2.16 µg/Kg | < 2.16 µg/Kg |
| m,p-Xylene | 5.39 µg/Kg | < 5.39 µg/Kg |
| o-Xylene | 5.39 µg/Kg | < 5.39 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 91.8 % |
| Toluene-d8 (SS) | | 97.2 % |
| Bromofluorobenzene (SS) | | 94.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-24 LF-SB6 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 11 ug/Kg |

Applicable results are reported on Dry Weight basis.

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
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SAMPLE MATRIX : Soil
ID MARKS : S70315-24 LF-SB6 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Acenaphthylene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Anthracene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Benzo(a)anthracene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Benzo(b)fluoranthene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Benzo(k)fluoranthene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Benzo(g,h,i)perylene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Benzo(a)pyrene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Benzyl alcohol | 0.700 mg/Kg | < 0.700 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.356 mg/Kg | < 0.356 mg/Kg |
| Bis(2-chloroethyl)ether | 0.356 mg/Kg | < 0.356 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.356 mg/Kg | < 0.356 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.356 mg/Kg | < 0.356 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.356 mg/Kg | < 0.356 mg/Kg |

REPORT NUMBER : D97-8054-24
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.356 mg/Kg | < 0.356 mg/Kg |
| Carbazole | 0.356 mg/Kg | < 0.356 mg/Kg |
| 4-Chloroaniline | 0.356 mg/Kg | < 0.356 mg/Kg |
| 2-Chloronaphthalene | 0.356 mg/Kg | < 0.356 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.356 mg/Kg | < 0.356 mg/Kg |
| Chrysene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Dibenz(a,h)anthracene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Dibenzofuran | 0.356 mg/Kg | < 0.356 mg/Kg |
| Di-n-butylphthalate | 0.356 mg/Kg | < 0.356 mg/Kg |
| 1,2-Dichlorobenzene | 0.356 mg/Kg | < 0.356 mg/Kg |
| 1,3-Dichlorobenzene | 0.356 mg/Kg | < 0.356 mg/Kg |
| 1,4-Dichlorobenzene | 0.356 mg/Kg | < 0.356 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.356 mg/Kg | < 0.356 mg/Kg |
| Diethyl phthalate | 0.356 mg/Kg | < 0.356 mg/Kg |
| Dimethyl phthalate | 0.356 mg/Kg | < 0.356 mg/Kg |
| 2,4-Dinitrotoluene | 0.356 mg/Kg | < 0.356 mg/Kg |
| 2,6-Dinitrotoluene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Di-n-octylphthalate | 0.356 mg/Kg | < 0.356 mg/Kg |
| Fluoranthene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Fluorene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Hexachlorobenzene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Hexachlorobutadiene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Hexachlorocyclopentadiene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Hexachloroethane | 0.356 mg/Kg | < 0.356 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Isophorone | 0.356 mg/Kg | < 0.356 mg/Kg |

REPORT NUMBER : D97-8054-24
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Naphthalene | 0.356 mg/Kg | < 0.356 mg/Kg |
| 2-Nitroaniline | 1.78 mg/Kg | < 1.78 mg/Kg |
| 3-Nitroaniline | 1.78 mg/Kg | < 1.78 mg/Kg |
| 4-Nitroaniline | 1.78 mg/Kg | < 1.78 mg/Kg |
| Nitrobenzene | 0.356 mg/Kg | < 0.356 mg/Kg |
| N-Nitrosodiphenylamine | 0.356 mg/Kg | < 0.356 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.356 mg/Kg | < 0.356 mg/Kg |
| Phenanthrene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Pyrene | 0.356 mg/Kg | < 0.356 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.356 mg/Kg | < 0.356 mg/Kg |
| Benzoic acid | 0.862 mg/Kg | < 0.862 mg/Kg |
| 4-Chloro-3-methylphenol | 0.700 mg/Kg | < 0.700 mg/Kg |
| 2-Chlorophenol | 0.356 mg/Kg | < 0.356 mg/Kg |
| 2,4-Dichlorophenol | 0.356 mg/Kg | < 0.356 mg/Kg |
| 2,4-Dimethylphenol | 0.356 mg/Kg | < 0.356 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.78 mg/Kg | < 1.78 mg/Kg |
| 2,4-Dinitrophenol | 1.78 mg/Kg | < 1.78 mg/Kg |
| 2-Methylphenol | 0.356 mg/Kg | < 0.356 mg/Kg |
| 4-Methylphenol | 0.356 mg/Kg | < 0.356 mg/Kg |
| 2-Nitrophenol | 0.356 mg/Kg | < 0.356 mg/Kg |
| 4-Nitrophenol | 0.862 mg/Kg | < 0.862 mg/Kg |
| Pentachlorophenol | 1.78 mg/Kg | < 1.78 mg/Kg |
| Phenol | 0.356 mg/Kg | < 0.356 mg/Kg |
| 2,4,5-Trichlorophenol | 1.78 mg/Kg | < 1.78 mg/Kg |
| 2,4,6-Trichlorophenol | 0.356 mg/Kg | < 0.356 mg/Kg |

REPORT NUMBER : D97-8054-24 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 72.5 % |
| 2-Fluorobiphenyl (SS) | | 68.9 % |
| Terphenyl-d14 (SS) | | 66.5 % |
| Phenol-d6 (SS) | | 55.9 % |
| 2-Fluorophenol (SS) | | 62.8 % |
| 2,4,6-Tribromophenol (SS) | | 74.8 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-25 LF-SB6 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 83.3 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154019G

Applicable results are reported on Dry Weight basis.

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REPORT NUMBER : D97-8054-25 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 60.0 mg/Kg | 21900 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.20 mg/Kg | 3.38 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.60 mg/Kg | 6.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.20 mg/Kg | 4.75 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 12.0 mg/Kg | 8040 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.144 mg/Kg | < 0.144 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-25 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 240 mg/Kg | 1960 mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 120 mg/Kg | 1890 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.20 mg/Kg | 113 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 120 mg/Kg | 190 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.20 mg/Kg | 5.85 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.600 mg/Kg | 7.15 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 6.00 mg/Kg | < 6.00 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-25 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.20 mg/Kg | < 1.20 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.32 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.20 mg/Kg | 14.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.40 mg/Kg | 24.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-25 LF-SB6 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.22 µg/Kg | < 3.22 µg/Kg |
| Alpha-BHC | 2.41 µg/Kg | < 2.41 µg/Kg |
| Beta-BHC | 4.83 µg/Kg | < 4.83 µg/Kg |
| Delta-BHC | 7.24 µg/Kg | < 7.24 µg/Kg |
| Gamma-BHC(Lindane) | 3.22 µg/Kg | < 3.22 µg/Kg |
| Chlordane | 11.3 µg/Kg | < 11.3 µg/Kg |
| 4,4'-DDD | 8.85 µg/Kg | < 8.85 µg/Kg |
| 4,4'-DDE | 3.22 µg/Kg | < 3.22 µg/Kg |
| 4,4'-DDT | 9.65 µg/Kg | < 9.65 µg/Kg |
| Dieldrin | 1.61 µg/Kg | < 1.61 µg/Kg |
| Endosulfan I | 11.3 µg/Kg | < 11.3 µg/Kg |
| Endosulfan II | 3.22 µg/Kg | < 3.22 µg/Kg |
| Endosulfan Sulfate | 53.1 µg/Kg | < 53.1 µg/Kg |
| Endrin | 4.83 µg/Kg | < 4.83 µg/Kg |



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REPORT NUMBER : D97-8054-25
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.5 µg/Kg | < 18.5 µg/Kg |
| Heptachlor | 2.41 µg/Kg | < 2.41 µg/Kg |
| Heptachlor Epoxide | 66.8 µg/Kg | < 66.8 µg/Kg |
| Methoxychlor | 142 µg/Kg | < 142 µg/Kg |
| Toxaphene | 193 µg/Kg | < 193 µg/Kg |
| Aroclor-1016 | 52.3 µg/Kg | < 52.3 µg/Kg |
| Aroclor-1221 | 52.3 µg/Kg | < 52.3 µg/Kg |
| Aroclor-1232 | 52.3 µg/Kg | < 52.3 µg/Kg |
| Aroclor-1242 | 52.3 µg/Kg | < 52.3 µg/Kg |
| Aroclor-1248 | 52.3 µg/Kg | < 52.3 µg/Kg |
| Aroclor-1254 | 52.3 µg/Kg | < 52.3 µg/Kg |
| Aroclor-1260 | 52.3 µg/Kg | < 52.3 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 87.4 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 74.7 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-25 LF-SB6 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.0 µg/Kg | < 24.0 µg/Kg |
| Acrylonitrile | 6.00 µg/Kg | < 6.00 µg/Kg |
| Benzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Bromobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Bromochloromethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Bromodichloromethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Bromoform | 6.00 µg/Kg | < 6.00 µg/Kg |
| Carbon disulfide | 6.00 µg/Kg | < 6.00 µg/Kg |
| Carbon tetrachloride | 6.00 µg/Kg | < 6.00 µg/Kg |
| Chlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Chloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Chloroform | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2-Chlorotoluene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 4-Chlorotoluene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2-Chloroethylvinyl ether | 12.0 µg/Kg | < 12.0 µg/Kg |
| Dibromochloromethane | 6.00 µg/Kg | < 6.00 µg/Kg |



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REPORT NUMBER : D97-8054-25
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.0 µg/Kg | < 30.0 µg/Kg |
| 1,2-Dibromoethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2-Dichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,3-Dichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,4-Dichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| trans-1,4-Dichloro-2-butene | 120 µg/Kg | < 120 µg/Kg |
| 1,1-Dichlorcethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2-Dichloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1-Dichloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| cis-1,2-Dichloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| trans-1,2-Dichloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2-Dichloropropane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2,2-Dichloropropane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1-Dichloropropene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,3-Dichloropropane | 6.00 µg/Kg | < 6.00 µg/Kg |
| cis-1,3-Dichloropropene | 6.00 µg/Kg | < 6.00 µg/Kg |
| trans-1,3-Dichloropropene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Ethylbenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2-Hexanone | 60.0 µg/Kg | < 60.0 µg/Kg |
| Bromomethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Chloromethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Dibromomethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2-Butanone | 120 µg/Kg | < 120 µg/Kg |
| Iodomethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Methylene chloride | 6.00 µg/Kg | < 6.00 µg/Kg |
| 4-Methyl-2-pentanone | 120 µg/Kg | < 120 µg/Kg |

REPORT NUMBER : D97-8054-25
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Tetrachloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Toluene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1,1-Trichloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1,2-Trichloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Trichloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Trichlorofluoromethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2,3-Trichloropropane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Vinyl acetate | 60.0 µg/Kg | < 60.0 µg/Kg |
| Vinyl chloride | 2.40 µg/Kg | < 2.40 µg/Kg |
| m,p-Xylene | 6.00 µg/Kg | < 6.00 µg/Kg |
| o-Xylene | 6.00 µg/Kg | < 6.00 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 108 % |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 95.4 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-25 LF-SB6 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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SAMPLE MATRIX : Soil
ID MARKS : S70315-25 LF-SB6 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Acenaphthylene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Anthracene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Benzo(a)anthracene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Benzo(b)fluoranthene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Benzo(k)fluoranthene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Benzo(g,h,i)perylene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Benzo(a)pyrene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Benzyl alcohol | 0.780 mg/Kg | < 0.780 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.396 mg/Kg | < 0.396 mg/Kg |
| Bis(2-chloroethyl)ether | 0.396 mg/Kg | < 0.396 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.396 mg/Kg | < 0.396 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.396 mg/Kg | < 0.396 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.396 mg/Kg | < 0.396 mg/Kg |



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REPORT NUMBER : D97-8054-25 PAGE 2
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.396 mg/Kg | < 0.396 mg/Kg |
| Carbazole | 0.396 mg/Kg | < 0.396 mg/Kg |
| 4-Chloroaniline | 0.396 mg/Kg | < 0.396 mg/Kg |
| 2-Chloronaphthalene | 0.396 mg/Kg | < 0.396 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.396 mg/Kg | < 0.396 mg/Kg |
| Chrysene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Dibenz(a,h)anthracene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Dibenzofuran | 0.396 mg/Kg | < 0.396 mg/Kg |
| Di-n-butylphthalate | 0.396 mg/Kg | < 0.396 mg/Kg |
| 1,2-Dichlorobenzene | 0.396 mg/Kg | < 0.396 mg/Kg |
| 1,3-Dichlorobenzene | 0.396 mg/Kg | < 0.396 mg/Kg |
| 1,4-Dichlorobenzene | 0.396 mg/Kg | < 0.396 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.396 mg/Kg | < 0.396 mg/Kg |
| Diethyl phthalate | 0.396 mg/Kg | < 0.396 mg/Kg |
| Dimethyl phthalate | 0.396 mg/Kg | < 0.396 mg/Kg |
| 2,4-Dinitrotoluene | 0.396 mg/Kg | < 0.396 mg/Kg |
| 2,6-Dinitrotoluene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Di-n-octylphthalate | 0.396 mg/Kg | < 0.396 mg/Kg |
| Fluoranthene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Fluorene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Hexachlorobenzene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Hexachlorobutadiene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Hexachlorocyclopentadiene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Hexachloroethane | 0.396 mg/Kg | < 0.396 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Isophorone | 0.396 mg/Kg | < 0.396 mg/Kg |

REPORT NUMBER : D97-8054-25
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Naphthalene | 0.396 mg/Kg | < 0.396 mg/Kg |
| 2-Nitroaniline | 1.98 mg/Kg | < 1.98 mg/Kg |
| 3-Nitroaniline | 1.98 mg/Kg | < 1.98 mg/Kg |
| 4-Nitroaniline | 1.98 mg/Kg | < 1.98 mg/Kg |
| Nitrobenzene | 0.396 mg/Kg | < 0.396 mg/Kg |
| N-Nitrosodiphenylamine | 0.396 mg/Kg | < 0.396 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.396 mg/Kg | < 0.396 mg/Kg |
| Phenanthrene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Pyrene | 0.396 mg/Kg | < 0.396 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.396 mg/Kg | < 0.396 mg/Kg |
| Benzoic acid | 0.960 mg/Kg | < 0.960 mg/Kg |
| 4-Chloro-3-methylphenol | 0.780 mg/Kg | < 0.780 mg/Kg |
| 2-Chlorophenol | 0.396 mg/Kg | < 0.396 mg/Kg |
| 2,4-Dichlorophenol | 0.396 mg/Kg | < 0.396 mg/Kg |
| 2,4-Dimethylphenol | 0.396 mg/Kg | < 0.396 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.98 mg/Kg | < 1.98 mg/Kg |
| 2,4-Dinitrophenol | 1.98 mg/Kg | < 1.98 mg/Kg |
| 2-Methylphenol | 0.396 mg/Kg | < 0.396 mg/Kg |
| 4-Methylphenol | 0.396 mg/Kg | < 0.396 mg/Kg |
| 2-Nitrophenol | 0.396 mg/Kg | < 0.396 mg/Kg |
| 4-Nitrophenol | 0.960 mg/Kg | < 0.960 mg/Kg |
| Pentachlorophenol | 1.98 mg/Kg | < 1.98 mg/Kg |
| Phenol | 0.396 mg/Kg | < 0.396 mg/Kg |
| 2,4,5-Trichlorophenol | 1.98 mg/Kg | < 1.98 mg/Kg |
| 2,4,6-Trichlorophenol | 0.396 mg/Kg | < 0.396 mg/Kg |



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REPORT NUMBER : D97-8054-25
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 70.1 % |
| 2-Fluorobiphenyl (SS) | | 62.3 % |
| Terphenyl-d14 (SS) | | 59.5 % |
| Phenol-d6 (SS) | | 61.3 % |
| 2-Fluorophenol (SS) | | 60.7 % |
| 2,4,6-Tribromophenol (SS) | | 82.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-25 LF-SB6 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.396 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-26
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-26 LF-SB8 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| MISCELLANEOUS ANALYSES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 82.0 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154019G | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-26
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-26 LF-SB8 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 12.2 mg/Kg | 9110 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.44 mg/Kg | 3.16 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.22 mg/Kg | 68.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.37 mg/Kg | 0.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-26 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 61.0 mg/Kg | 13100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.22 mg/Kg | 5.25 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.61 mg/Kg | 8.82 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.22 mg/Kg | 5.85 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 12.2 mg/Kg | 10700 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.146 mg/Kg | < 0.146 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-26 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 244 | mg/Kg | 2090 | mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Magnesium | /1 | 122 | mg/Kg | 2860 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Manganese | /1 | 1.22 | mg/Kg | 162 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Sodium | /1 | 122 | mg/Kg | 960 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Nickel | /1 | 1.22 | mg/Kg | 9.28 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Lead | /1 | 0.610 | mg/Kg | 7.47 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Antimony | /1 | 6.10 | mg/Kg | < 6.10 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |



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REPORT NUMBER : D97-8054-26 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.22 mg/Kg | < 1.22 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.52 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.22 mg/Kg | 17.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.44 mg/Kg | 37.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-26
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-26 LF-SB8 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.27 µg/Kg | < 3.27 µg/Kg |
| Alpha-BHC | 2.45 µg/Kg | < 2.45 µg/Kg |
| Beta-BHC | 4.90 µg/Kg | < 4.90 µg/Kg |
| Delta-BHC | 7.35 µg/Kg | < 7.35 µg/Kg |
| Gamma-BHC(Lindane) | 3.27 µg/Kg | < 3.27 µg/Kg |
| Chlordane | 11.4 µg/Kg | < 11.4 µg/Kg |
| 4,4'-DDD | 8.99 µg/Kg | < 8.99 µg/Kg |
| 4,4'-DDE | 3.27 µg/Kg | < 3.27 µg/Kg |
| 4,4'-DDT | 9.80 µg/Kg | < 9.80 µg/Kg |
| Dieldrin | 1.63 µg/Kg | < 1.63 µg/Kg |
| Endosulfan I | 11.4 µg/Kg | < 11.4 µg/Kg |
| Endosulfan II | 3.27 µg/Kg | < 3.27 µg/Kg |
| Endosulfan Sulfate | 53.9 µg/Kg | < 53.9 µg/Kg |
| Endrin | 4.90 µg/Kg | < 4.90 µg/Kg |



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REPORT NUMBER : D97-8054-26
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.8 µg/Kg | < 18.8 µg/Kg |
| Heptachlor | 2.45 µg/Kg | < 2.45 µg/Kg |
| Heptachlor Epoxide | 67.8 µg/Kg | < 67.8 µg/Kg |
| Methoxychlor | 144 µg/Kg | < 144 µg/Kg |
| Toxaphene | 196 µg/Kg | < 196 µg/Kg |
| Aroclor-1016 | 53.1 µg/Kg | < 53.1 µg/Kg |
| Aroclor-1221 | 53.1 µg/Kg | < 53.1 µg/Kg |
| Aroclor-1232 | 53.1 µg/Kg | < 53.1 µg/Kg |
| Aroclor-1242 | 53.1 µg/Kg | < 53.1 µg/Kg |
| Aroclor-1248 | 53.1 µg/Kg | < 53.1 µg/Kg |
| Aroclor-1254 | 53.1 µg/Kg | < 53.1 µg/Kg |
| Aroclor-1260 | 53.1 µg/Kg | < 53.1 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 92.2 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 83.1 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-26
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-26 LF-SB8 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Acetone | 24.4 | µg/Kg | < | 24.4 | µg/Kg |
| Acrylonitrile | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Benzene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Bromobenzene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Bromochloromethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Bromodichloromethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Bromoform | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Carbon disulfide | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Carbon tetrachloride | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Chlorobenzene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Chloroethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Chloroform | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 2-Chlorotoluene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 4-Chlorotoluene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 2-Chloroethylvinyl ether | 12.2 | µg/Kg | < | 12.2 | µg/Kg |
| Dibromochloromethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |



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REPORT NUMBER : D97-8054-26
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 1,2-Dibromo-3-chloropropane | 30.5 | µg/Kg | < | 30.5 | µg/Kg |
| 1,2-Dibromoethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 1,2-Dichlorobenzene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 1,3-Dichlorobenzene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 1,4-Dichlorobenzene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| trans-1,4-Dichloro-2-butene | 122 | µg/Kg | < | 122 | µg/Kg |
| 1,1-Dichloroethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 1,2-Dichloroethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 1,1-Dichloroethene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| cis-1,2-Dichloroethene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| trans-1,2-Dichloroethene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 1,2-Dichloropropane | 6.10 | µg/Kg | | 26.7 | µg/Kg |
| 2,2-Dichloropropane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 1,1-Dichloropropene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 1,3-Dichloropropane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| cis-1,3-Dichloropropene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| trans-1,3-Dichloropropene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Ethylbenzene | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 2-Hexanone | 61.0 | µg/Kg | < | 61.0 | µg/Kg |
| Bromomethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Chloromethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Dibromomethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 2-Butanone | 122 | µg/Kg | < | 122 | µg/Kg |
| Iodomethane | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| Methylene chloride | 6.10 | µg/Kg | < | 6.10 | µg/Kg |
| 4-Methyl-2-pentanone | 122 | µg/Kg | < | 122 | µg/Kg |

REPORT NUMBER : D97-8054-26
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Tetrachloroethene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Toluene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1,1-Trichloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1,2-Trichloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Trichloroethene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Trichlorofluoromethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2,3-Trichloropropane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Vinyl acetate | 61.0 µg/Kg | < 61.0 µg/Kg |
| Vinyl chloride | 2.44 µg/Kg | < 2.44 µg/Kg |
| m,p-Xylene | 6.10 µg/Kg | < 6.10 µg/Kg |
| o-Xylene | 6.10 µg/Kg | < 6.10 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 90.0 % |
| Toluene-d8 (SS) | | 90.0 % |
| Bromofluorobenzene (SS) | | 98.2 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-26
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-26 LF-SB8 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-26
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-26 LF-SB8 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Acenaphthylene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Anthracene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Benzo(a)anthracene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Benzo(b)fluoranthene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Benzo(k)fluoranthene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Benzo(g,h,i)perylene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Benzo(a)pyrene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Benzyl alcohol | 0.793 mg/Kg | < 0.793 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.402 mg/Kg | < 0.402 mg/Kg |
| Bis(2-chloroethyl)ether | 0.402 mg/Kg | < 0.402 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.402 mg/Kg | < 0.402 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.402 mg/Kg | < 0.402 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.402 mg/Kg | < 0.402 mg/Kg |



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REPORT NUMBER : D97-8054-26 PAGE 2
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.402 mg/Kg | < 0.402 mg/Kg |
| Carbazole | 0.402 mg/Kg | < 0.402 mg/Kg |
| 4-Chloroaniline | 0.402 mg/Kg | < 0.402 mg/Kg |
| 2-Chloronaphthalene | 0.402 mg/Kg | < 0.402 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.402 mg/Kg | < 0.402 mg/Kg |
| Chrysene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Dibenz(a,h)anthracene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Dibenzofuran | 0.402 mg/Kg | < 0.402 mg/Kg |
| Di-n-butylphthalate | 0.402 mg/Kg | < 0.402 mg/Kg |
| 1,2-Dichlorobenzene | 0.402 mg/Kg | < 0.402 mg/Kg |
| 1,3-Dichlorobenzene | 0.402 mg/Kg | < 0.402 mg/Kg |
| 1,4-Dichlorobenzene | 0.402 mg/Kg | < 0.402 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.402 mg/Kg | < 0.402 mg/Kg |
| Diethyl phthalate | 0.402 mg/Kg | < 0.402 mg/Kg |
| Dimethyl phthalate | 0.402 mg/Kg | < 0.402 mg/Kg |
| 2,4-Dinitrotoluene | 0.402 mg/Kg | < 0.402 mg/Kg |
| 2,6-Dinitrotoluene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Di-n-octylphthalate | 0.402 mg/Kg | < 0.402 mg/Kg |
| Fluoranthene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Fluorene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Hexachlorobenzene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Hexachlorobutadiene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Hexachlorocyclopentadiene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Hexachloroethane | 0.402 mg/Kg | < 0.402 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Isophorone | 0.402 mg/Kg | < 0.402 mg/Kg |

REPORT NUMBER : D97-8054-26
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Naphthalene | 0.402 mg/Kg | < 0.402 mg/Kg |
| 2-Nitroaniline | 2.01 mg/Kg | < 2.01 mg/Kg |
| 3-Nitroaniline | 2.01 mg/Kg | < 2.01 mg/Kg |
| 4-Nitroaniline | 2.01 mg/Kg | < 2.01 mg/Kg |
| Nitrobenzene | 0.402 mg/Kg | < 0.402 mg/Kg |
| N-Nitrosodiphenylamine | 0.402 mg/Kg | < 0.402 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.402 mg/Kg | < 0.402 mg/Kg |
| Phenanthrene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Pyrene | 0.402 mg/Kg | < 0.402 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.402 mg/Kg | < 0.402 mg/Kg |
| Benzoic acid | 0.976 mg/Kg | < 0.976 mg/Kg |
| 4-Chloro-3-methylphenol | 0.793 mg/Kg | < 0.793 mg/Kg |
| 2-Chlorophenol | 0.402 mg/Kg | < 0.402 mg/Kg |
| 2,4-Dichlorophenol | 0.402 mg/Kg | < 0.402 mg/Kg |
| 2,4-Dimethylphenol | 0.402 mg/Kg | < 0.402 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.01 mg/Kg | < 2.01 mg/Kg |
| 2,4-Dinitrophenol | 2.01 mg/Kg | < 2.01 mg/Kg |
| 2-Methylphenol | 0.402 mg/Kg | < 0.402 mg/Kg |
| 4-Methylphenol | 0.402 mg/Kg | < 0.402 mg/Kg |
| 2-Nitrophenol | 0.402 mg/Kg | < 0.402 mg/Kg |
| 4-Nitrophenol | 0.976 mg/Kg | < 0.976 mg/Kg |
| Pentachlorophenol | 2.01 mg/Kg | < 2.01 mg/Kg |
| Phenol | 0.402 mg/Kg | < 0.402 mg/Kg |
| 2,4,5-Trichlorophenol | 2.01 mg/Kg | < 2.01 mg/Kg |
| 2,4,6-Trichlorophenol | 0.402 mg/Kg | < 0.402 mg/Kg |

REPORT NUMBER : D97-8054-26
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 77.3 % |
| 2-Fluorobiphenyl (SS) | | 71.9 % |
| Terphenyl-d14 (SS) | | 65.9 % |
| Phenol-d6 (SS) | | 62.5 % |
| 2-Fluorophenol (SS) | | 64.3 % |
| 2,4,6-Tribromophenol (SS) | | 80.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-26
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-26 LF-SB8 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.402 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-27
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-27 LF-SB1 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 89.3 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154019G | | | |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-27
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-27 LF-SB1 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.56 mg/Kg | < 0.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.2 mg/Kg | 7210 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 0.896 mg/Kg | 4.07 mg/Kg |
| Dilution Factor : 2<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.12 mg/Kg | 111 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.34 mg/Kg | 0.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-27 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 56.0 mg/Kg | 19300 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.56 mg/Kg | < 0.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.12 mg/Kg | 6.52 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.56 mg/Kg | 9.99 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.12 mg/Kg | 7.79 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.2 mg/Kg | 13300 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.134 mg/Kg | < 0.134 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-27 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 112 | mg/Kg | 1450 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Magnesium | /1 | 112 | mg/Kg | 1780 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Manganese | /1 | 1.12 | mg/Kg | 240 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Sodium | /1 | 112 | mg/Kg | 957 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Nickel | /1 | 1.12 | mg/Kg | 10.2 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Lead | /1 | 0.560 | mg/Kg | 1500 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Antimony | /1 | 5.60 | mg/Kg | < 5.60 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |



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REPORT NUMBER : D97-8054-27 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.12 mg/Kg | < 1.12 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 2.19 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.1 mg/Kg | < 1.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.12 mg/Kg | 18.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.24 mg/Kg | 139 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-27
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-27 LF-SB1 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 56.0 µg/Kg | < 56.0 µg/Kg |
| 2,4-DB | 56.0 µg/Kg | < 56.0 µg/Kg |
| 2,4,5-T | 5.60 µg/Kg | < 5.60 µg/Kg |
| 2,4,5-TP(Silvex) | 5.60 µg/Kg | < 5.60 µg/Kg |
| Dalapon | 224 µg/Kg | < 224 µg/Kg |
| Dicamba | 5.60 µg/Kg | < 5.60 µg/Kg |
| Dichlorprop | 56.0 µg/Kg | < 56.0 µg/Kg |
| Dinoseb | 22.4 µg/Kg | < 22.4 µg/Kg |
| MCPA | 22400 µg/Kg | < 22400 µg/Kg |
| MCPP | 22400 µg/Kg | < 22400 µg/Kg |



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REPORT NUMBER : D97-8054-27
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 73.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-27
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-27 LF-SB1 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.00 µg/Kg | < 3.00 µg/Kg |
| Alpha-BHC | 2.25 µg/Kg | < 2.25 µg/Kg |
| Beta-BHC | 4.50 µg/Kg | < 4.50 µg/Kg |
| Delta-BHC | 6.75 µg/Kg | < 6.75 µg/Kg |
| Gamma-BHC(Lindane) | 3.00 µg/Kg | < 3.00 µg/Kg |
| Chlordane | 10.5 µg/Kg | < 10.5 µg/Kg |
| 4,4'-DDD | 8.25 µg/Kg | < 8.25 µg/Kg |
| 4,4'-DDE | 3.00 µg/Kg | < 3.00 µg/Kg |
| 4,4'-DDT | 9.00 µg/Kg | < 9.00 µg/Kg |
| Dieldrin | 1.50 µg/Kg | < 1.50 µg/Kg |
| Endosulfan I | 10.5 µg/Kg | < 10.5 µg/Kg |
| Endosulfan II | 3.00 µg/Kg | < 3.00 µg/Kg |
| Endosulfan Sulfate | 49.5 µg/Kg | < 49.5 µg/Kg |
| Endrin | 4.50 µg/Kg | < 4.50 µg/Kg |



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REPORT NUMBER : D97-8054-27
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 17.3 µg/Kg | < 17.3 µg/Kg |
| Heptachlor | 2.25 µg/Kg | < 2.25 µg/Kg |
| Heptachlor Epoxide | 62.3 µg/Kg | < 62.3 µg/Kg |
| Methoxychlor | 132 µg/Kg | < 132 µg/Kg |
| Toxaphene | 180 µg/Kg | < 180 µg/Kg |
| Aroclor-1016 | 48.8 µg/Kg | < 48.8 µg/Kg |
| Aroclor-1221 | 48.8 µg/Kg | < 48.8 µg/Kg |
| Aroclor-1232 | 48.8 µg/Kg | < 48.8 µg/Kg |
| Aroclor-1242 | 48.8 µg/Kg | < 48.8 µg/Kg |
| Aroclor-1248 | 48.8 µg/Kg | < 48.8 µg/Kg |
| Aroclor-1254 | 48.8 µg/Kg | < 48.8 µg/Kg |
| Aroclor-1260 | 48.8 µg/Kg | < 48.8 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 83.8 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 69.5 % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-27
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-27 LF-SB1 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 22.4 µg/Kg | < 22.4 µg/Kg |
| Acrylonitrile | 5.60 µg/Kg | < 5.60 µg/Kg |
| Benzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| Bromobenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| Bromochloromethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| Bromodichloromethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| Bromoform | 5.60 µg/Kg | < 5.60 µg/Kg |
| Carbon disulfide | 5.60 µg/Kg | < 5.60 µg/Kg |
| Carbon tetrachloride | 5.60 µg/Kg | < 5.60 µg/Kg |
| Chlorobenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| Chloroethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| Chloroform | 5.60 µg/Kg | < 5.60 µg/Kg |
| 2-Chlorotoluene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 4-Chlorotoluene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 2-Chloroethylvinyl ether | 11.2 µg/Kg | < 11.2 µg/Kg |
| Dibromochloromethane | 5.60 µg/Kg | < 5.60 µg/Kg |



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REPORT NUMBER : D97-8054-27
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 28.0 µg/Kg | < 28.0 µg/Kg |
| 1,2-Dibromoethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,2-Dichlorobenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,3-Dichlorobenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,4-Dichlorobenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| trans-1,4-Dichloro-2-butene | 112 µg/Kg | < 112 µg/Kg |
| 1,1-Dichloroethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,2-Dichloroethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,1-Dichloroethene | 5.60 µg/Kg | < 5.60 µg/Kg |
| cis-1,2-Dichloroethene | 5.60 µg/Kg | < 5.60 µg/Kg |
| trans-1,2-Dichloroethene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,2-Dichloropropane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 2,2-Dichloropropane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,1-Dichloropropene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,3-Dichloropropane | 5.60 µg/Kg | < 5.60 µg/Kg |
| cis-1,3-Dichloropropene | 5.60 µg/Kg | < 5.60 µg/Kg |
| trans-1,3-Dichloropropene | 5.60 µg/Kg | < 5.60 µg/Kg |
| Ethylbenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 2-Hexanone | 56.0 µg/Kg | < 56.0 µg/Kg |
| Bromomethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| Chloromethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| Dibromomethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 2-Butanone | 112 µg/Kg | < 112 µg/Kg |
| Iodomethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| Methylene chloride | 5.60 µg/Kg | < 5.60 µg/Kg |
| 4-Methyl-2-pentanone | 112 µg/Kg | < 112 µg/Kg |

REPORT NUMBER : D97-8054-27
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| Tetrachloroethene | 5.60 µg/Kg | < 5.60 µg/Kg |
| Toluene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,1,1-Trichloroethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,1,2-Trichloroethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| Trichloroethene | 5.60 µg/Kg | < 5.60 µg/Kg |
| Trichlorofluoromethane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,2,3-Trichloropropane | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.60 µg/Kg | < 5.60 µg/Kg |
| Vinyl acetate | 56.0 µg/Kg | < 56.0 µg/Kg |
| Vinyl chloride | 2.24 µg/Kg | < 2.24 µg/Kg |
| m,p-Xylene | 5.60 µg/Kg | < 5.60 µg/Kg |
| o-Xylene | 5.60 µg/Kg | < 5.60 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 83.2 % |
| Toluene-d8 (SS) | | 95.4 % |
| Bromofluorobenzene (SS) | | 91.0 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-27
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-27 LF-SB1 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Decanal | 13.22 | VOA | 7.8 ug/Kg |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-27
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-27 LF-SB1 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Acenaphthylene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Anthracene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(a)anthracene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(b)fluoranthene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(k)fluoranthene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(g,h,i)perylene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(a)pyrene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzyl alcohol | 0.728 mg/Kg | < 0.728 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.370 mg/Kg | < 0.370 mg/Kg |
| Bis(2-chloroethyl)ether | 0.370 mg/Kg | < 0.370 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.370 mg/Kg | < 0.370 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.370 mg/Kg | < 0.370 mg/Kg |



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REPORT NUMBER : D97-8054-27
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| Carbazole | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Chloroaniline | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2-Chloronaphthalene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.370 mg/Kg | < 0.370 mg/Kg |
| Chrysene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Dibenz(a,h)anthracene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Dibenzofuran | 0.370 mg/Kg | < 0.370 mg/Kg |
| Di-n-butylphthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| 1,2-Dichlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 1,3-Dichlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 1,4-Dichlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.370 mg/Kg | < 0.370 mg/Kg |
| Diethyl phthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| Dimethyl phthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,4-Dinitrotoluene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,6-Dinitrotoluene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Di-n-octylphthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| Fluoranthene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Fluorene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Hexachlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Hexachlorobutadiene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Hexachlorocyclopentadiene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Hexachloroethane | 0.370 mg/Kg | < 0.370 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Isophorone | 0.370 mg/Kg | < 0.370 mg/Kg |

REPORT NUMBER : D97-8054-27
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Naphthalene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2-Nitroaniline | 1.85 mg/Kg | < 1.85 mg/Kg |
| 3-Nitroaniline | 1.85 mg/Kg | < 1.85 mg/Kg |
| 4-Nitroaniline | 1.85 mg/Kg | < 1.85 mg/Kg |
| Nitrobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| N-Nitrosodiphenylamine | 0.370 mg/Kg | < 0.370 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.370 mg/Kg | < 0.370 mg/Kg |
| Phenanthrene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Pyrene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzoic acid | 0.896 mg/Kg | < 0.896 mg/Kg |
| 4-Chloro-3-methylphenol | 0.728 mg/Kg | < 0.728 mg/Kg |
| 2-Chlorophenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,4-Dichlorophenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,4-Dimethylphenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.85 mg/Kg | < 1.85 mg/Kg |
| 2,4-Dinitrophenol | 1.85 mg/Kg | < 1.85 mg/Kg |
| 2-Methylphenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Methylphenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2-Nitrophenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Nitrophenol | 0.896 mg/Kg | < 0.896 mg/Kg |
| Pentachlorophenol | 1.85 mg/Kg | < 1.85 mg/Kg |
| Phenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,4,5-Trichlorophenol | 1.85 mg/Kg | < 1.85 mg/Kg |
| 2,4,6-Trichlorophenol | 0.370 mg/Kg | < 0.370 mg/Kg |

REPORT NUMBER : D97-8054-27
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 81.4 % |
| 2-Fluorobiphenyl (SS) | | 73.7 % |
| Terphenyl-d14 (SS) | | 65.9 % |
| Phenol-d6 (SS) | | 66.7 % |
| 2-Fluorophenol (SS) | | 69.7 % |
| 2,4,6-Tribromophenol (SS) | | 87.1 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-27
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-27 LF-SB1 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.370 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-28
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-28 LF-SB1 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 82.5 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154019G | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-28
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-28 LF-SB1 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 12.1 mg/Kg | 8040 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 0.979 mg/Kg | 2.76 mg/Kg |
| Dilution Factor : 2<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.21 mg/Kg | 82.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.36 mg/Kg | 0.42 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-28 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 60.6 mg/Kg | 22600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.21 mg/Kg | 2.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.61 mg/Kg | 6.26 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.21 mg/Kg | 4.79 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 12.1 mg/Kg | 8240 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.145 mg/Kg | < 0.145 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-28 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 242 | mg/Kg | 2100 | mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Magnesium | /1 | 121 | mg/Kg | 1930 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Manganese | /1 | 1.21 | mg/Kg | 206 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Sodium | /1 | 121 | mg/Kg | 547 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Nickel | /1 | 1.21 | mg/Kg | 4.75 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Lead | /1 | 0.606 | mg/Kg | 7.85 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Antimony | /1 | 6.06 | mg/Kg | < 6.06 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |



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REPORT NUMBER : D97-8054-28 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.21 mg/Kg | < 1.21 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.21 mg/Kg | 12.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.42 mg/Kg | 22.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-28
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-28 LF-SB1 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 60.6 µg/Kg | < 60.6 µg/Kg |
| 2,4-DB | 60.6 µg/Kg | < 60.6 µg/Kg |
| 2,4,5-T | 6.06 µg/Kg | < 6.06 µg/Kg |
| 2,4,5-TP(Silvex) | 6.06 µg/Kg | < 6.06 µg/Kg |
| Dalapon | 242 µg/Kg | < 242 µg/Kg |
| Dicamba | 6.06 µg/Kg | < 6.06 µg/Kg |
| Dichlorprop | 60.6 µg/Kg | < 60.6 µg/Kg |
| Dinoseb | 24.2 µg/Kg | < 24.2 µg/Kg |
| MCPA | 24200 µg/Kg | < 24200 µg/Kg |
| MCPP | 24200 µg/Kg | < 24200 µg/Kg |

REPORT NUMBER : D97-8054-28
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 84.1 % |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

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## Environmental Laboratories

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REPORT NUMBER : D97-8054-28
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-28 LF-SB1 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.25 µg/Kg | < 3.25 µg/Kg |
| Alpha-BHC | 2.44 µg/Kg | < 2.44 µg/Kg |
| Beta-BHC | 4.87 µg/Kg | < 4.87 µg/Kg |
| Delta-BHC | 7.31 µg/Kg | < 7.31 µg/Kg |
| Gamma-BHC(Lindane) | 3.25 µg/Kg | < 3.25 µg/Kg |
| Chlordane | 11.4 µg/Kg | < 11.4 µg/Kg |
| 4,4'-DDD | 8.93 µg/Kg | < 8.93 µg/Kg |
| 4,4'-DDE | 3.25 µg/Kg | < 3.25 µg/Kg |
| 4,4'-DDT | 9.75 µg/Kg | < 9.75 µg/Kg |
| Dieldrin | 1.62 µg/Kg | < 1.62 µg/Kg |
| Endosulfan I | 11.4 µg/Kg | < 11.4 µg/Kg |
| Endosulfan II | 3.25 µg/Kg | < 3.25 µg/Kg |
| Endosulfan Sulfate | 53.6 µg/Kg | < 53.6 µg/Kg |
| Endrin | 4.87 µg/Kg | < 4.87 µg/Kg |



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REPORT NUMBER : D97-8054-28
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.7 µg/Kg | < 18.7 µg/Kg |
| Heptachlor | 2.44 µg/Kg | < 2.44 µg/Kg |
| Heptachlor Epoxide | 67.4 µg/Kg | < 67.4 µg/Kg |
| Methoxychlor | 143 µg/Kg | < 143 µg/Kg |
| Toxaphene | 195 µg/Kg | < 195 µg/Kg |
| Aroclor-1016 | 52.8 µg/Kg | < 52.8 µg/Kg |
| Aroclor-1221 | 52.8 µg/Kg | < 52.8 µg/Kg |
| Aroclor-1232 | 52.8 µg/Kg | < 52.8 µg/Kg |
| Aroclor-1242 | 52.8 µg/Kg | < 52.8 µg/Kg |
| Aroclor-1248 | 52.8 µg/Kg | < 52.8 µg/Kg |
| Aroclor-1254 | 52.8 µg/Kg | < 52.8 µg/Kg |
| Aroclor-1260 | 52.8 µg/Kg | < 52.8 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 91.2 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 81.2 % |

Applicable results are reported on Dry Weight basis.

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SAMPLE SUBMITTED BY : US Army Corps of Engineers
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: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-28 LF-SB1 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.2 µg/Kg | < 24.2 µg/Kg |
| Acrylonitrile | 6.06 µg/Kg | < 6.06 µg/Kg |
| Benzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| Bromobenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| Bromochloromethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| Bromodichloromethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| Bromoform | 6.06 µg/Kg | < 6.06 µg/Kg |
| Carbon disulfide | 6.06 µg/Kg | 7.39 µg/Kg |
| Carbon tetrachloride | 6.06 µg/Kg | < 6.06 µg/Kg |
| Chlorobenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| Chloroethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| Chloroform | 6.06 µg/Kg | < 6.06 µg/Kg |
| 2-Chlorotoluene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 4-Chlorotoluene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 2-Chloroethylvinyl ether | 12.1 µg/Kg | < 12.1 µg/Kg |
| Dibromochloromethane | 6.06 µg/Kg | < 6.06 µg/Kg |



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REPORT NUMBER : D97-8054-28
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.3 µg/Kg | < 30.3 µg/Kg |
| 1,2-Dibromoethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,2-Dichlorobenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,3-Dichlorobenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,4-Dichlorobenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| trans-1,4-Dichloro-2-butene | 121 µg/Kg | < 121 µg/Kg |
| 1,1-Dichloroethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,2-Dichloroethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,1-Dichloroethene | 6.06 µg/Kg | < 6.06 µg/Kg |
| cis-1,2-Dichloroethene | 6.06 µg/Kg | < 6.06 µg/Kg |
| trans-1,2-Dichloroethene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,2-Dichloropropane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 2,2-Dichloropropane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,1-Dichloropropene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,3-Dichloropropane | 6.06 µg/Kg | < 6.06 µg/Kg |
| cis-1,3-Dichloropropene | 6.06 µg/Kg | < 6.06 µg/Kg |
| trans-1,3-Dichloropropene | 6.06 µg/Kg | < 6.06 µg/Kg |
| Ethylbenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 2-Hexanone | 60.6 µg/Kg | < 60.6 µg/Kg |
| Bromomethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| Chloromethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| Dibromomethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 2-Butanone | 121 µg/Kg | < 121 µg/Kg |
| Iodomethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| Methylene chloride | 6.06 µg/Kg | < 6.06 µg/Kg |
| 4-Methyl-2-pentanone | 121 µg/Kg | < 121 µg/Kg |

REPORT NUMBER : D97-8054-28
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| Tetrachloroethene | 6.06 µg/Kg | < 6.06 µg/Kg |
| Toluene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,1,1-Trichloroethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,1,2-Trichloroethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| Trichloroethene | 6.06 µg/Kg | < 6.06 µg/Kg |
| Trichlorofluoromethane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,2,3-Trichloropropane | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.06 µg/Kg | < 6.06 µg/Kg |
| Vinyl acetate | 60.6 µg/Kg | < 60.6 µg/Kg |
| Vinyl chloride | 2.42 µg/Kg | < 2.42 µg/Kg |
| m,p-Xylene | 6.06 µg/Kg | < 6.06 µg/Kg |
| o-Xylene | 6.06 µg/Kg | < 6.06 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 108 % |
| Toluene-d8 (SS) | | 109 % |
| Bromofluorobenzene (SS) | | 91.6 % |

Applicable results are reported on Dry Weight basis.



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ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-28 LF-SB1 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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SAMPLE MATRIX : Soil
ID MARKS : S70315-28 LF-SB1 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Acenaphthylene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Anthracene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(a)anthracene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(b)fluoranthene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(k)fluoranthene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(g,h,i)perylene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(a)pyrene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzyl alcohol | 0.788 mg/Kg | < 0.788 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.400 mg/Kg | < 0.400 mg/Kg |
| Bis(2-chloroethyl)ether | 0.400 mg/Kg | < 0.400 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.400 mg/Kg | < 0.400 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.400 mg/Kg | < 0.400 mg/Kg |



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ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| Carbazole | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Chloroaniline | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2-Chloronaphthalene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.400 mg/Kg | < 0.400 mg/Kg |
| Chrysene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Dibenz(a,h)anthracene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Dibenzofuran | 0.400 mg/Kg | < 0.400 mg/Kg |
| Di-n-butylphthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| 1,2-Dichlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 1,3-Dichlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 1,4-Dichlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.400 mg/Kg | < 0.400 mg/Kg |
| Diethyl phthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| Dimethyl phthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,4-Dinitrotoluene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,6-Dinitrotoluene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Di-n-octylphthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| Fluoranthene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Fluorene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Hexachlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Hexachlorobutadiene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Hexachlorocyclopentadiene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Hexachloroethane | 0.400 mg/Kg | < 0.400 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Isophorone | 0.400 mg/Kg | < 0.400 mg/Kg |

REPORT NUMBER : D97-8054-28
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Naphthalene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2-Nitroaniline | 2.00 mg/Kg | < 2.00 mg/Kg |
| 3-Nitroaniline | 2.00 mg/Kg | < 2.00 mg/Kg |
| 4-Nitroaniline | 2.00 mg/Kg | < 2.00 mg/Kg |
| Nitrobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| N-Nitrosodiphenylamine | 0.400 mg/Kg | < 0.400 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.400 mg/Kg | < 0.400 mg/Kg |
| Phenanthrene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Pyrene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzoic acid | 0.970 mg/Kg | < 0.970 mg/Kg |
| 4-Chloro-3-methylphenol | 0.788 mg/Kg | < 0.788 mg/Kg |
| 2-Chlorophenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,4-Dichlorophenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,4-Dimethylphenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.00 mg/Kg | < 2.00 mg/Kg |
| 2,4-Dinitrophenol | 2.00 mg/Kg | < 2.00 mg/Kg |
| 2-Methylphenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Methylphenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2-Nitrophenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Nitrophenol | 0.970 mg/Kg | < 0.970 mg/Kg |
| Pentachlorophenol | 2.00 mg/Kg | < 2.00 mg/Kg |
| Phenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,4,5-Trichlorophenol | 2.00 mg/Kg | < 2.00 mg/Kg |
| 2,4,6-Trichlorophenol | 0.400 mg/Kg | < 0.400 mg/Kg |



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REPORT NUMBER : D97-8054-28
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 74.3 % |
| 2-Fluorobiphenyl (SS) | | 70.1 % |
| Terphenyl-d14 (SS) | | 65.9 % |
| Phenol-d6 (SS) | | 61.6 % |
| 2-Fluorophenol (SS) | | 64.3 % |
| 2,4,6-Tribromophenol (SS) | | 79.3 % |

Applicable results are reported on Dry Weight basis.

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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-28 LF-SB1 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.400 mg/Kg |

Applicable results are reported on Dry Weight basis.

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SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-29 LF-SB1 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 85.5 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154019G

Applicable results are reported on Dry Weight basis.

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SAMPLE MATRIX : Soil
ID MARKS : S70315-29 LF-SB1 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.7 mg/Kg | 5350 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 0.936 mg/Kg | 2.56 mg/Kg |
| Dilution Factor : 2<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 7-JUL-1997 by AH<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.17 mg/Kg | 21.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.35 mg/Kg | < 0.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.5 mg/Kg | 41100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.53 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.17 mg/Kg | 2.07 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.58 mg/Kg | 6.31 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.17 mg/Kg | 3.04 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.7 mg/Kg | 5610 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.140 mg/Kg | < 0.140 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-29 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 117 mg/Kg | 1330 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 117 mg/Kg | 1930 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.17 mg/Kg | 96.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 117 mg/Kg | 384 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.17 mg/Kg | 4.29 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.585 mg/Kg | 11.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 5.85 mg/Kg | < 5.85 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-29 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.17 mg/Kg | < 1.17 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.07 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.17 mg/Kg | 12.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.34 mg/Kg | 14.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-29
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-29 LF-SB1 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.5 µg/Kg | < 58.5 µg/Kg |
| 2,4-DB | 58.5 µg/Kg | < 58.5 µg/Kg |
| 2,4,5-T | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2,4,5-TP(Silvex) | 5.85 µg/Kg | < 5.85 µg/Kg |
| Dalapon | 234 µg/Kg | < 234 µg/Kg |
| Dicamba | 5.85 µg/Kg | < 5.85 µg/Kg |
| Dichlorprop | 58.5 µg/Kg | < 58.5 µg/Kg |
| Dinoseb | 23.4 µg/Kg | < 23.4 µg/Kg |
| MCPA | 23400 µg/Kg | < 23400 µg/Kg |
| MCPP | 23400 µg/Kg | < 23400 µg/Kg |



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REPORT NUMBER : D97-8054-29
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 70.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-29
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-29 LF-SB1 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.13 µg/Kg | < 3.13 µg/kg |
| Alpha-BHC | 2.35 µg/Kg | < 2.35 µg/Kg |
| Beta-BHC | 4.70 µg/Kg | < 4.70 µg/Kg |
| Delta-BHC | 7.05 µg/Kg | < 7.05 µg/Kg |
| Gamma-BHC(Lindane) | 3.13 µg/Kg | < 3.13 µg/Kg |
| Chlordane | 11.0 µg/Kg | < 11.0 µg/Kg |
| 4,4'-DDD | 8.62 µg/Kg | < 8.62 µg/Kg |
| 4,4'-DDE | 3.13 µg/Kg | < 3.13 µg/Kg |
| 4,4'-DDT | 9.40 µg/Kg | < 9.40 µg/Kg |
| Dieldrin | 1.57 µg/Kg | < 1.57 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < 11.0 µg/Kg |
| Endosulfan II | 3.13 µg/Kg | < 3.13 µg/Kg |
| Endosulfan Sulfate | 51.7 µg/Kg | < 51.7 µg/Kg |
| Endrin | 4.70 µg/Kg | < 4.70 µg/Kg |

REPORT NUMBER : D97-8054-29
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.0 | µg/Kg | < | 18.0 | µg/Kg |
| Heptachlor | 2.35 | µg/Kg | < | 2.35 | µg/Kg |
| Heptachlor Epoxide | 65.0 | µg/Kg | < | 65.0 | µg/Kg |
| Methoxychlor | 138 | µg/Kg | < | 138 | µg/Kg |
| Toxaphene | 188 | µg/Kg | < | 188 | µg/Kg |
| Aroclor-1016 | 50.9 | µg/Kg | < | 50.9 | µg/Kg |
| Aroclor-1221 | 50.9 | µg/Kg | < | 50.9 | µg/Kg |
| Aroclor-1232 | 50.9 | µg/Kg | < | 50.9 | µg/Kg |
| Aroclor-1242 | 50.9 | µg/Kg | < | 50.9 | µg/Kg |
| Aroclor-1248 | 50.9 | µg/Kg | < | 50.9 | µg/Kg |
| Aroclor-1254 | 50.9 | µg/Kg | < | 50.9 | µg/Kg |
| Aroclor-1260 | 50.9 | µg/Kg | < | 50.9 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 89.2 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 79.8 % |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-29
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-29 LF-SB1 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.4 µg/Kg | < 23.4 µg/Kg |
| Acrylonitrile | 5.85 µg/Kg | < 5.85 µg/Kg |
| Benzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Bromobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Bromochloromethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Bromodichloromethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Bromoform | 5.85 µg/Kg | < 5.85 µg/Kg |
| Carbon disulfide | 5.85 µg/Kg | < 5.85 µg/Kg |
| Carbon tetrachloride | 5.85 µg/Kg | < 5.85 µg/Kg |
| Chlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Chloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Chloroform | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2-Chlorotoluene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 4-Chlorotoluene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2-Chloroethylvinyl ether | 11.7 µg/Kg | < 11.7 µg/Kg |
| Dibromochloromethane | 5.85 µg/Kg | < 5.85 µg/Kg |



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REPORT NUMBER : D97-8054-29
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.2 µg/Kg | < 29.2 µg/Kg |
| 1,2-Dibromoethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2-Dichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,3-Dichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,4-Dichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| trans-1,4-Dichloro-2-butene | 117 µg/Kg | < 117 µg/Kg |
| 1,1-Dichloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2-Dichloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1-Dichloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| cis-1,2-Dichloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| trans-1,2-Dichloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2-Dichloropropane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2,2-Dichloropropane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1-Dichloropropene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,3-Dichloropropane | 5.85 µg/Kg | < 5.85 µg/Kg |
| cis-1,3-Dichloropropene | 5.85 µg/Kg | < 5.85 µg/Kg |
| trans-1,3-Dichloropropene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Ethylbenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2-Hexanone | 58.5 µg/Kg | < 58.5 µg/Kg |
| Bromomethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Chloromethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Dibromomethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2-Butanone | 117 µg/Kg | < 117 µg/Kg |
| Iodomethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Methylene chloride | 5.85 µg/Kg | < 5.85 µg/Kg |
| 4-Methyl-2-pentanone | 117 µg/Kg | < 117 µg/Kg |

REPORT NUMBER : D97-8054-29
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Tetrachloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Toluene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1,1-Trichloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1,2-Trichloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Trichloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Trichlorofluoromethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2,3-Trichloropropane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Vinyl acetate | 58.5 µg/Kg | < 58.5 µg/Kg |
| Vinyl chloride | 2.34 µg/Kg | < 2.34 µg/Kg |
| m,p-Xylene | 5.85 µg/Kg | < 5.85 µg/Kg |
| o-Xylene | 5.85 µg/Kg | < 5.85 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 104 % |
| Toluene-d8 (SS) | | 110 % |
| Bromofluorobenzene (SS) | | 95.8 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-29
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-29 LF-SB1 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-29
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-29 LF-SB1 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Acenaphthylene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Anthracene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(a)anthracene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(b)fluoranthene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(k)fluoranthene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(g,h,i)perylene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(a)pyrene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzyl alcohol | 0.760 mg/Kg | < 0.760 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.386 mg/Kg | < 0.386 mg/Kg |
| Bis(2-chloroethyl)ether | 0.386 mg/Kg | < 0.386 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.386 mg/Kg | < 0.386 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.386 mg/Kg | < 0.386 mg/Kg |



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REPORT NUMBER : D97-8054-29
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| Carbazole | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Chloroaniline | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2-Chloronaphthalene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.386 mg/Kg | < 0.386 mg/Kg |
| Chrysene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Dibenz(a,h)anthracene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Dibenzofuran | 0.386 mg/Kg | < 0.386 mg/Kg |
| Di-n-butylphthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| 1,2-Dichlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 1,3-Dichlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 1,4-Dichlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.386 mg/Kg | < 0.386 mg/Kg |
| Diethyl phthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| Dimethyl phthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,4-Dinitrotoluene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,6-Dinitrotoluene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Di-n-octylphthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| Fluoranthene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Fluorene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Hexachlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Hexachlorobutadiene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Hexachlorocyclopentadiene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Hexachloroethane | 0.386 mg/Kg | < 0.386 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Isophorone | 0.386 mg/Kg | < 0.386 mg/Kg |

REPORT NUMBER : D97-8054-29
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Naphthalene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2-Nitroaniline | 1.93 mg/Kg | < 1.93 mg/Kg |
| 3-Nitroaniline | 1.93 mg/Kg | < 1.93 mg/Kg |
| 4-Nitroaniline | 1.93 mg/Kg | < 1.93 mg/Kg |
| Nitrobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| N-Nitrosodiphenylamine | 0.386 mg/Kg | < 0.386 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.386 mg/Kg | < 0.386 mg/Kg |
| Phenanthrene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Pyrene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzoic acid | 0.936 mg/Kg | < 0.936 mg/Kg |
| 4-Chloro-3-methylphenol | 0.760 mg/Kg | < 0.760 mg/Kg |
| 2-Chlorophenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,4-Dichlorophenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,4-Dimethylphenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.93 mg/Kg | < 1.93 mg/Kg |
| 2,4-Dinitrophenol | 1.93 mg/Kg | < 1.93 mg/Kg |
| 2-Methylphenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Methylphenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2-Nitrophenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Nitrophenol | 0.936 mg/Kg | < 0.936 mg/Kg |
| Pentachlorophenol | 1.93 mg/Kg | < 1.93 mg/Kg |
| Phenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,4,5-Trichlorophenol | 1.93 mg/Kg | < 1.93 mg/Kg |
| 2,4,6-Trichlorophenol | 0.386 mg/Kg | < 0.386 mg/Kg |



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REPORT NUMBER : D97-8054-29
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 76.1 % |
| 2-Fluorobiphenyl (SS) | | 71.3 % |
| Terphenyl-d14 (SS) | | 68.3 % |
| Phenol-d6 (SS) | | 64.6 % |
| 2-Fluorophenol (SS) | | 71.5 % |
| 2,4,6-Tribromophenol (SS) | | 79.9 % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-29
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-29 LF-SB1 (8.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.386 mg/Kg |

Applicable results are reported on Dry Weight basis.



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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-30
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-30 LF-SB2 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 88.3 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154019G

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-31
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-31 LF-SB2 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Undecane | 5.91 | ABN | 1.6 mg/Kg |
| Dodecane | 7.17 | ABN | 1.2 mg/Kg |
| Nonane, 3-methyl- | 8.04 | ABN | 1.05 mg/Kg |
| Dodecane, 2,7,10-trimethyl- | 9.23 | ABN | 1.8 mg/Kg |
| Tetradecane | 9.51 | ABN | 2.1 mg/Kg |
| Heptadecane, 2,6,10,14-tetramethyl | 10.15 | ABN | 1.8 mg/Kg |
| Benzene, 1-methyl-4-(1-methylethyl | 11.29 | ABN | 1.5 mg/Kg |
| Heptadecane | 12.60 | ABN | 1.7 mg/Kg |
| Tetradecanoic acid | 13.41 | ABN | 2.0 mg/Kg |
| Hexadecanoic acid | 16.17 | ABN | 9.2 mg/Kg |
| Sulfur, mol. (S8) | 17.20 | ABN | 3.2 mg/Kg |
| Tridecane, 7-hexyl- | 17.49 | ABN | 2.8 mg/Kg |
| 9-Hexadecenoic acid | 17.89 | ABN | 4.5 mg/Kg |
| Octadecanoic acid | 18.12 | ABN | 4.1 mg/Kg |
| Eicosane | 18.41 | ABN | 3.7 mg/Kg |
| Nonadecane | 19.25 | ABN | 4.0 mg/Kg |
| Docosane | 20.02 | ABN | 3.9 mg/Kg |



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REPORT NUMBER : D97-8054-31
ANALYSIS METHOD : EPA 625/8270 /1



TENTATIVELY IDENTIFIED COMPOUNDS

| COMPOUND | RETENTION TIME | FRACTION | RESULT |
|---|---|---|---|
| Heneicosane | 20.74 | ABN | 3.5 mg/Kg |
| Unknown hydrocarbon | 21.42 | ABN | 3.3 mg/Kg |
| Unknown hydrocarbon | 22.06 | ABN | 4.3 mg/Kg |
| Unknown hydrocarbon | 23.26 | ABN | 3.5 mg/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-32
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-32 LF-SB2 (6.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 83.4 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154020H

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-32
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-32 LF-SB2 (6.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 12.0 mg/Kg | 5170 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.40 mg/Kg | 4.75 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.20 mg/Kg | 159 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.36 mg/Kg | < 0.36 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-32 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 60.0 mg/Kg | 28800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.20 mg/Kg | 2.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.60 mg/Kg | 5.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.20 mg/Kg | 4.09 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 12.0 mg/Kg | 5590 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.144 mg/Kg | < 0.144 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-32 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 120 mg/Kg | 1270 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 120 mg/Kg | 1610 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.20 mg/Kg | 68.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 120 mg/Kg | 1040 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.20 mg/Kg | 4.87 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.600 mg/Kg | 5.99 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 6.00 mg/Kg | < 6.00 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-32 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.20 mg/Kg | < 1.20 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.20 mg/Kg | 14.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.40 mg/Kg | 17.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-32
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-32 LF-SB2 (6.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 2
METHOD FACTOR : 660
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 6.30 µg/Kg | < 6.30 µg/Kg |
| Alpha-BHC | 4.73 µg/Kg | < 4.73 µg/Kg |
| Beta-BHC | 9.45 µg/Kg | < 9.45 µg/Kg |
| Delta-BHC | 14.2 µg/Kg | < 14.2 µg/Kg |
| Gamma-BHC(Lindane) | 6.30 µg/Kg | < 6.30 µg/Kg |
| Chlordane | 22.1 µg/Kg | < 22.1 µg/Kg |
| 4,4'-DDD | 17.3 µg/Kg | < 17.3 µg/Kg |
| 4,4'-DDE | 6.30 µg/Kg | < 6.30 µg/Kg |
| 4,4'-DDT | 18.9 µg/Kg | < 18.9 µg/Kg |
| Dieldrin | 3.15 µg/Kg | < 3.15 µg/Kg |
| Endosulfan I | 22.1 µg/Kg | < 22.1 µg/Kg |
| Endosulfan II | 6.30 µg/Kg | < 6.30 µg/Kg |
| Endosulfan Sulfate | 104 µg/Kg | < 104 µg/Kg |
| Endrin | 9.45 µg/Kg | < 9.45 µg/Kg |



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REPORT NUMBER : D97-8054-32
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 36.2 | µg/Kg | < | 36.2 | µg/Kg |
| Heptachlor | 4.73 | µg/Kg | < | 4.73 | µg/Kg |
| Heptachlor Epoxide | 131 | µg/Kg | < | 131 | µg/Kg |
| Methoxychlor | 277 | µg/Kg | < | 277 | µg/Kg |
| Toxaphene | 378 | µg/Kg | < | 378 | µg/Kg |
| Aroclor-1016 | 102 | µg/Kg | < | 102 | µg/Kg |
| Aroclor-1221 | 102 | µg/Kg | < | 102 | µg/Kg |
| Aroclor-1232 | 102 | µg/Kg | < | 102 | µg/Kg |
| Aroclor-1242 | 102 | µg/Kg | < | 102 | µg/Kg |
| Aroclor-1248 | 102 | µg/Kg | < | 102 | µg/Kg |
| Aroclor-1254 | 102 | µg/Kg | < | 102 | µg/Kg |
| Aroclor-1260 | 102 | µg/Kg | < | 102 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 61.7 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 47.8 % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-32
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-32 LF-SB2 (6.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 0703971001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.0 µg/Kg | 204 µg/Kg |
| Acrylonitrile | 6.00 µg/Kg | < 6.00 µg/Kg |
| Benzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Bromobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Bromochloromethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Bromodichloromethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Bromoform | 6.00 µg/Kg | < 6.00 µg/Kg |
| Carbon disulfide | 6.00 µg/Kg | < 6.00 µg/Kg |
| Carbon tetrachloride | 6.00 µg/Kg | < 6.00 µg/Kg |
| Chlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Chloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Chloroform | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2-Chlorotoluene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 4-Chlorotoluene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2-Chloroethylvinyl ether | 12.0 µg/Kg | < 12.0 µg/Kg |
| Dibromochloromethane | 6.00 µg/Kg | < 6.00 µg/Kg |



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REPORT NUMBER : D97-8054-32
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.0 µg/Kg | < 30.0 µg/Kg |
| 1,2-Dibromoethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2-Dichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,3-Dichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,4-Dichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| trans-1,4-Dichloro-2-butene | 120 µg/Kg | < 120 µg/Kg |
| 1,1-Dichloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2-Dichloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1-Dichloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| cis-1,2-Dichloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| trans-1,2-Dichloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2-Dichloropropane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2,2-Dichloropropane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1-Dichloropropene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,3-Dichloropropane | 6.00 µg/Kg | < 6.00 µg/Kg |
| cis-1,3-Dichloropropene | 6.00 µg/Kg | < 6.00 µg/Kg |
| trans-1,3-Dichloropropene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Ethylbenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2-Hexanone | 60.0 µg/Kg | < 60.0 µg/Kg |
| Bromomethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Chloromethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Dibromomethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 2-Butanone | 120 µg/Kg | < 120 µg/Kg |
| Iodomethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Methylene chloride | 6.00 µg/Kg | < 6.00 µg/Kg |
| 4-Methyl-2-pentanone | 120 µg/Kg | < 120 µg/Kg |

REPORT NUMBER : D97-8054-32
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Tetrachloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Toluene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1,1-Trichloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,1,2-Trichloroethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| Trichloroethene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Trichlorofluoromethane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2,3-Trichloropropane | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.00 µg/Kg | < 6.00 µg/Kg |
| Vinyl acetate | 60.0 µg/Kg | < 60.0 µg/Kg |
| Vinyl chloride | 2.40 µg/Kg | < 2.40 µg/Kg |
| m,p-Xylene | 6.00 µg/Kg | < 6.00 µg/Kg |
| o-Xylene | 6.00 µg/Kg | < 6.00 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 108 % |
| Toluene-d8 (SS) | | 110 % |
| Bromofluorobenzene (SS) | | 95.4 % |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-32
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-32 LF-SB2 (6.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 3-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 0703971001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-32
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-32 LF-SB2 (6.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 2
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Acenaphthylene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Anthracene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Benzo(a)anthracene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Benzo(b)fluoranthene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Benzo(k)fluoranthene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Benzo(g,h,i)perylene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Benzo(a)pyrene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Benzyl alcohol | 1.56 mg/Kg | < 1.56 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.791 mg/Kg | < 0.791 mg/Kg |
| Bis(2-chloroethyl)ether | 0.791 mg/Kg | < 0.791 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.791 mg/Kg | < 0.791 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.791 mg/Kg | < 0.791 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.791 mg/Kg | < 0.791 mg/Kg |

REPORT NUMBER : D97-8054-32
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.791 mg/Kg | < 0.791 mg/Kg |
| Carbazole | 0.791 mg/Kg | < 0.791 mg/Kg |
| 4-Chloroaniline | 0.791 mg/Kg | < 0.791 mg/Kg |
| 2-Chloronaphthalene | 0.791 mg/Kg | < 0.791 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.791 mg/Kg | < 0.791 mg/Kg |
| Chrysene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Dibenz(a,h)anthracene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Dibenzofuran | 0.791 mg/Kg | < 0.791 mg/Kg |
| Di-n-butylphthalate | 0.791 mg/Kg | < 0.791 mg/Kg |
| 1,2-Dichlorobenzene | 0.791 mg/Kg | < 0.791 mg/Kg |
| 1,3-Dichlorobenzene | 0.791 mg/Kg | < 0.791 mg/Kg |
| 1,4-Dichlorobenzene | 0.791 mg/Kg | < 0.791 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.791 mg/Kg | < 0.791 mg/Kg |
| Diethyl phthalate | 0.791 mg/Kg | < 0.791 mg/Kg |
| Dimethyl phthalate | 0.791 mg/Kg | < 0.791 mg/Kg |
| 2,4-Dinitrotoluene | 0.791 mg/Kg | < 0.791 mg/Kg |
| 2,6-Dinitrotoluene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Di-n-octylphthalate | 0.791 mg/Kg | < 0.791 mg/Kg |
| Fluoranthene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Fluorene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Hexachlorobenzene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Hexachlorobutadiene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Hexachlorocyclopentadiene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Hexachloroethane | 0.791 mg/Kg | < 0.791 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Isophorone | 0.791 mg/Kg | < 0.791 mg/Kg |

REPORT NUMBER : D97-8054-32
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Naphthalene | 0.791 mg/Kg | < 0.791 mg/Kg |
| 2-Nitroaniline | 3.96 mg/Kg | < 3.96 mg/Kg |
| 3-Nitroaniline | 3.96 mg/Kg | < 3.96 mg/Kg |
| 4-Nitroaniline | 3.96 mg/Kg | < 3.96 mg/Kg |
| Nitrobenzene | 0.791 mg/Kg | < 0.791 mg/Kg |
| N-Nitrosodiphenylamine | 0.791 mg/Kg | < 0.791 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.791 mg/Kg | < 0.791 mg/Kg |
| Phenanthrene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Pyrene | 0.791 mg/Kg | < 0.791 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.791 mg/Kg | < 0.791 mg/Kg |
| Benzoic acid | 1.92 mg/Kg | < 1.92 mg/Kg |
| 4-Chloro-3-methylphenol | 1.56 mg/Kg | < 1.56 mg/Kg |
| 2-Chlorophenol | 0.791 mg/Kg | < 0.791 mg/Kg |
| 2,4-Dichlorophenol | 0.791 mg/Kg | < 0.791 mg/Kg |
| 2,4-Dimethylphenol | 0.791 mg/Kg | < 0.791 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 3.96 mg/Kg | < 3.96 mg/Kg |
| 2,4-Dinitrophenol | 3.96 mg/Kg | < 3.96 mg/Kg |
| 2-Methylphenol | 0.791 mg/Kg | < 0.791 mg/Kg |
| 4-Methylphenol | 0.791 mg/Kg | < 0.791 mg/Kg |
| 2-Nitrophenol | 0.791 mg/Kg | < 0.791 mg/Kg |
| 4-Nitrophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| Pentachlorophenol | 3.96 mg/Kg | < 3.96 mg/Kg |
| Phenol | 0.791 mg/Kg | < 0.791 mg/Kg |
| 2,4,5-Trichlorophenol | 3.96 mg/Kg | < 3.96 mg/Kg |
| 2,4,6-Trichlorophenol | 0.791 mg/Kg | < 0.791 mg/Kg |



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REPORT NUMBER : D97-8054-32
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 62.3 % |
| 2-Fluorobiphenyl (SS) | | 58.3 % |
| Terphenyl-d14 (SS) | | 76.1 % |
| Phenol-d6 (SS) | | 70.0 % |
| 2-Fluorophenol (SS) | | 60.4 % |
| 2,4,6-Tribromophenol (SS) | | 67.0 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-32
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-32 LF-SB2 (6.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Eicosane | 20.71 | ABN | 1.4 mg/Kg |
| Heneicosane | 21.40 | ABN | 2.2 mg/Kg |
| Heptadecane, 9-octyl- | 22.04 | ABN | 4.1 mg/Kg |
| Unknown hydrocarbon | 22.66 | ABN | 3.8 mg/Kg |
| Unknown hydrocarbon | 23.26 | ABN | 3.6 mg/Kg |
| Unknown hydrocarbon | 23.83 | ABN | 2.5 mg/Kg |
| Unknown hydrocarbon | 24.39 | ABN | 3.5 mg/Kg |
| Unknown hydrocarbon | 24.96 | ABN | 1.7 mg/Kg |
| Ethoprophos | 25.23 | ABN | 1.9 mg/Kg |
| Ergosta-5,22-dien-3-ol, (3.beta.,2 | 25.36 | ABN | 1.09 mg/Kg |
| Heneicosane | 25.53 | ABN | 1.7 mg/Kg |
| Ergost-5-en-3-ol, (3.beta.)- | 25.74 | ABN | 3.1 mg/Kg |
| Olean-12-en-28-al, cyclic 1,2-etha | 26.34 | ABN | 1.4 mg/Kg |
| 1-Eicosanol | 26.82 | ABN | 1.8 mg/Kg |

Applicable results are reported on Dry Weight basis.



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US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

**Project:** Former Webb AFB
**Field ID:** LF-SB2(2.0)QA
**Date Sampled :** 28 June 1997
**Date analysed:** 11 July 1997
**Method No:** 8260A
**Analyst:** JSN
**Dilution Factor:** 2

**Date Reported:** 29 July 1997
**Site :** Landfill
**Date received:** 30 June 1997
**SWD Lab No.:** S70315-33
**QC Batch No :** 970711S1
**Sample Matrix:** Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Acetone | 60 | 200 | < 60 |
| Benzene | 2 | 10 | < 2.0 |
| Bromobenzene | 2 | 10 | < 2.0 |
| Bromochloromethane | 4 | 20 | < 4.0 |
| Bromodichloromethane | 2 | 10 | < 2.0 |
| Bromoform | 2 | 10 | < 2.0 |
| Bromomethane | 4 | 20 | < 4.0 |
| 2-Butanone | 60 | 200 | < 60 |
| n-Butylbenzene | 2 | 10 | 21 |
| sec- Butylbenzene | 2 | 10 | 12 |
| tert-Butylbenzene | 2 | 10 | 19 |
| Carbon tetrachloride | 2 | 10 | < 2.0 |
| Chlorobenzene | 2 | 10 | 38 |
| Chloroethane | 6 | 20 | < 6.0 |
| Chloroform | 2 | 10 | < 2.0 |
| Chloromethane | 6 | 20 | < 6.0 |
| 2-Chlorotoluene | 2 | 10 | < 2.0 |
| 4-Chlorotoluene | 2 | 10 | < 2.0 |
| Dibromochloromethane | 2 | 10 | < 2.0 |
| 1,2-Dibromo-3-chloropropane | 12 | 50 | < 12 |
| 1,2-Dibromoethane | 2 | 10 | < 2.0 |
| Dibromomethane | 2 | 10 | < 2.0 |
| 1,2-Dichlorobenzene | 2 | 10 | < 2.0 |
| 1,3-Dichlorobenzene | 2 | 10 | < 2.0 |
| 1,4-Dichlorobenzene | 2 | 10 | 180 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB
Field ID: LF(SB2(2.0)QA
Date Sampled : 28 June 1997
Date analysed: 11 July 1997
Method No: 8260A
Analyst: JSN
Dilution Factor: 2

Date Reported: 29 July 1997
Site : Landfill
Date received: 30 June 1997
SWD Lab No.: S70315-33
QC Batch No : 970711S1
Sample Matrix: Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Dichlorodifluoromethane | 4 | 20 | < 4.0 |
| 1,1-Dichloroethane | 2 | 10 | < 2.0 |
| 1,2-Dichloroethane | 2 | 10 | < 2.0 |
| 1,1-Dichloroethene | 2 | 10 | < 2.0 |
| cis-1,2-Dichloroethene | 2 | 10 | < 2.0 |
| trans-1,2-Dichloroethene | 4 | 20 | < 4.0 |
| 1,2-Dichloropropane | 2 | 10 | < 2.0 |
| 1,3-Dichloropropane | 2 | 10 | < 2.0 |
| 2,2-Dichloropropane | 2 | 10 | < 2.0 |
| 1,1-Dichloropropene | 4 | 20 | < 4.0 |
| Ethylbenzene | 2 | 10 | 280 |
| 2-Hexanone | 60 | 200 | < 60 |
| Hexachlorobutadiene | 2 | 10 | < 2.0 |
| Isopropylbenzene | 2 | 10 | 33 |
| p-Isopropyltoluene | 2 | 10 | 210 |
| 4-Methyl-2-pentanone | 60 | 200 | < 60 |
| Methylene chloride | 4 | 20 | < 4.0 |
| Naphthalene | 2 | 10 | 38 |
| n-Propylbenzene | 2 | 10 | 31 |
| Styrene | 2 | 10 | < 2.0 |
| 1,1,1,2-Tetrachloroethane | 2 | 10 | < 2.0 |
| 1,1,2,2-Tetrachloroethane | 4 | 20 | < 4.0 |
| Tetrachloroethene | 2 | 10 | < 2.0 |
| Toluene | 4 | 20 | 85 |
| 1,2,3-Trichlorobenzene | 2 | 10 | < 2.0 |

04051

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

**Project:** Former Webb AFB
**Field ID:** LF-SB2(2.0)QA
**Date Sampled :** 28 June 1997
**Date analysed:** 11 July 1997
**Method No:** 8260A
**Analyst:** JSN
**Dilution Factor:** 2

**Date Reported:** 29 July 1997
**Site :** Landfill
**Date received:** 30 June 1997
**SWD Lab No.:** S70315-33
**QC Batch No :** 970711S1
**Sample Matrix:** Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| 1,2,4-Trichlorobenzene | 2 | 10 | < 2.0 |
| 1,1,1-Trichloroethane | 2 | 10 | < 2.0 |
| 1,1,2-Trichloroethane | 2 | 10 | < 2.0 |
| Trichloroethene | 2 | 10 | < 2.0 |
| Trichlorofluoromethane | 2 | 20 | < 2.0 |
| 1,2,3-Trichloropropane | 4 | 20 | < 4.0 |
| 1,2,4-Trimethylbenzene | 2 | 10 | 160 |
| 1,3,5-Trimethylbenzene | 2 | 10 | 55 |
| Vinyl chloride | 4 | 20 | < 4.0 |
| o-Xylene | 2 | 10 | 410 |
| m & p-Xylene * | 2 | 20 | >1100 |
| **Surrogates** | | **Con of Surrogate (ug/Kg)** | **Amount Recovered** |
| Dibromofluoromethane | | 50 | 93 % |
| 1,2-Dichloroethane-d4 | | 50 | 112 % |
| Toluene-d8 | | 50 | 97 % |
| 4-Bromofluorobenzene | | 50 | 101 % |

* Concentration exceeds calibration range.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S70315-33

Lab Name: US ARMY CORPS OF ENGINEERS SWD LAB Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: 315-33

Sample wt/vol: 3.0 (g/mL) G Lab File ID: 315-33.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 7/11/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 1 Concentration Units: (ug/L or ug/Kg) ug/Kg

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. 1120-21-4 | Undecane | 22.35 | 36 | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
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| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-33
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-34 LF-SB5 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 91.3 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154020H | | | |

Applicable results are reported on Dry Weight basis.

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# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-33
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-34 LF-SB5 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.55 mg/Kg | < 0.55 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.0 mg/Kg | 7880 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.10 mg/Kg | 3.03 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.10 mg/Kg | 60.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.33 mg/Kg | 0.44 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-33 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 54.8 mg/Kg | 10700 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.55 mg/Kg | < 0.55 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.10 mg/Kg | 3.24 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.55 mg/Kg | 6.14 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.10 mg/Kg | 4.88 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.0 mg/Kg | 7340 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.131 mg/Kg | < 0.131 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-33 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 2190 | mg/Kg | 2230 | mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Magnesium | /1 | 110 | mg/Kg | 1770 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Manganese | /1 | 1.10 | mg/Kg | 112 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Sodium | /1 | 110 | mg/Kg | 837 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Nickel | /1 | 1.10 | mg/Kg | 5.35 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Lead | /1 | 0.548 | mg/Kg | 6.85 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |
| Antimony | /1 | 5.48 | mg/Kg | < 5.48 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | | | |



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REPORT NUMBER : D97-8054-33 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.10 mg/Kg | < 1.10 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.52 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.1 mg/Kg | < 1.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.10 mg/Kg | 13.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.19 mg/Kg | 20.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-33
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-34 LF-SB5 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 2.93 µg/Kg | < 2.93 µg/Kg |
| Alpha-BHC | 2.19 µg/Kg | < 2.19 µg/Kg |
| Beta-BHC | 4.39 µg/Kg | < 4.39 µg/Kg |
| Delta-BHC | 6.58 µg/Kg | < 6.58 µg/Kg |
| Gamma-BHC(Lindane) | 2.93 µg/Kg | < 2.93 µg/Kg |
| Chlordane | 10.2 µg/Kg | 14.8 µg/Kg |
| 4,4'-DDD | 8.05 µg/Kg | < 8.05 µg/Kg |
| 4,4'-DDE | 2.93 µg/Kg | < 2.93 µg/Kg |
| 4,4'-DDT | 8.78 µg/Kg | < 8.78 µg/Kg |
| Dieldrin | 1.46 µg/Kg | < 1.46 µg/Kg |
| Endosulfan I | 10.2 µg/Kg | < 10.2 µg/Kg |
| Endosulfan II | 2.93 µg/Kg | < 2.93 µg/Kg |
| Endosulfan Sulfate | 48.3 µg/Kg | < 48.3 µg/Kg |
| Endrin | 4.39 µg/Kg | < 4.39 µg/Kg |



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REPORT NUMBER : D97-8054-33
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 16.8 | µg/Kg | < | 16.8 | µg/Kg |
| Heptachlor | 2.19 | µg/Kg | < | 2.19 | µg/Kg |
| Heptachlor Epoxide | 60.7 | µg/Kg | < | 60.7 | µg/Kg |
| Methoxychlor | 129 | µg/Kg | < | 129 | µg/Kg |
| Toxaphene | 176 | µg/Kg | < | 176 | µg/Kg |
| Aroclor-1016 | 47.6 | µg/Kg | < | 47.6 | µg/Kg |
| Aroclor-1221 | 47.6 | µg/Kg | < | 47.6 | µg/Kg |
| Aroclor-1232 | 47.6 | µg/Kg | < | 47.6 | µg/Kg |
| Aroclor-1242 | 47.6 | µg/Kg | < | 47.6 | µg/Kg |
| Aroclor-1248 | 47.6 | µg/Kg | < | 47.6 | µg/Kg |
| Aroclor-1254 | 47.6 | µg/Kg | < | 47.6 | µg/Kg |
| Aroclor-1260 | 47.6 | µg/Kg | < | 47.6 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 71.9 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 67.8 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-33
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-34 LF-SB5 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707081002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 21.9 µg/Kg | < 21.9 µg/Kg |
| Acrylonitrile | 5.48 µg/Kg | < 5.48 µg/Kg |
| Benzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| Bromobenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| Bromochloromethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| Bromodichloromethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| Bromoform | 5.48 µg/Kg | < 5.48 µg/Kg |
| Carbon disulfide | 5.48 µg/Kg | < 5.48 µg/Kg |
| Carbon tetrachloride | 5.48 µg/Kg | < 5.48 µg/Kg |
| Chlorobenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| Chloroethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| Chloroform | 5.48 µg/Kg | < 5.48 µg/Kg |
| 2-Chlorotoluene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 4-Chlorotoluene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 2-Chloroethylvinyl ether | 11.0 µg/Kg | < 11.0 µg/Kg |
| Dibromochloromethane | 5.48 µg/Kg | < 5.48 µg/Kg |



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REPORT NUMBER : D97-8054-33
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 27.4 µg/Kg | < 27.4 µg/Kg |
| 1,2-Dibromoethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,2-Dichlorobenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,3-Dichlorobenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,4-Dichlorobenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| trans-1,4-Dichloro-2-butene | 110 µg/Kg | < 110 µg/Kg |
| 1,1-Dichloroethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,2-Dichloroethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,1-Dichloroethene | 5.48 µg/Kg | < 5.48 µg/Kg |
| cis-1,2-Dichloroethene | 5.48 µg/Kg | < 5.48 µg/Kg |
| trans-1,2-Dichloroethene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,2-Dichloropropane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 2,2-Dichloropropane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,1-Dichloropropene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,3-Dichloropropane | 5.48 µg/Kg | < 5.48 µg/Kg |
| cis-1,3-Dichloropropene | 5.48 µg/Kg | < 5.48 µg/Kg |
| trans-1,3-Dichloropropene | 5.48 µg/Kg | < 5.48 µg/Kg |
| Ethylbenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 2-Hexanone | 54.8 µg/Kg | < 54.8 µg/Kg |
| Bromomethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| Chloromethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| Dibromomethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 2-Butanone | 110 µg/Kg | < 110 µg/Kg |
| Iodomethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| Methylene chloride | 5.48 µg/Kg | < 5.48 µg/Kg |
| 4-Methyl-2-pentanone | 110 µg/Kg | < 110 µg/Kg |

REPORT NUMBER : D97-8054-33
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| Tetrachloroethene | 5.48 µg/Kg | < 5.48 µg/Kg |
| Toluene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,1,1-Trichloroethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,1,2-Trichloroethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| Trichloroethene | 5.48 µg/Kg | < 5.48 µg/Kg |
| Trichlorofluoromethane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,2,3-Trichloropropane | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.48 µg/Kg | < 5.48 µg/Kg |
| Vinyl acetate | 54.8 µg/Kg | < 54.8 µg/Kg |
| Vinyl chloride | 2.19 µg/Kg | < 2.19 µg/Kg |
| m,p-Xylene | 5.48 µg/Kg | < 5.48 µg/Kg |
| o-Xylene | 5.48 µg/Kg | < 5.48 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 119 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 104 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-33
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-34 LF-SB5 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707081002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 11 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-33
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-34 LF-SB5 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Acenaphthylene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Anthracene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Benzo(a)anthracene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Benzo(b)fluoranthene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Benzo(k)fluoranthene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Benzo(g,h,i)perylene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Benzo(a)pyrene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Benzyl alcohol | 0.712 mg/Kg | < 0.712 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.361 mg/Kg | < 0.361 mg/Kg |
| Bis(2-chloroethyl)ether | 0.361 mg/Kg | < 0.361 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.361 mg/Kg | < 0.361 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.361 mg/Kg | < 0.361 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.361 mg/Kg | < 0.361 mg/Kg |



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REPORT NUMBER : D97-8054-33
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.361 mg/Kg | < 0.361 mg/Kg |
| Carbazole | 0.361 mg/Kg | < 0.361 mg/Kg |
| 4-Chloroaniline | 0.361 mg/Kg | < 0.361 mg/Kg |
| 2-Chloronaphthalene | 0.361 mg/Kg | < 0.361 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.361 mg/Kg | < 0.361 mg/Kg |
| Chrysene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Dibenz(a,h)anthracene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Dibenzofuran | 0.361 mg/Kg | < 0.361 mg/Kg |
| Di-n-butylphthalate | 0.361 mg/Kg | < 0.361 mg/Kg |
| 1,2-Dichlorobenzene | 0.361 mg/Kg | < 0.361 mg/Kg |
| 1,3-Dichlorobenzene | 0.361 mg/Kg | < 0.361 mg/Kg |
| 1,4-Dichlorobenzene | 0.361 mg/Kg | < 0.361 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.361 mg/Kg | < 0.361 mg/Kg |
| Diethyl phthalate | 0.361 mg/Kg | < 0.361 mg/Kg |
| Dimethyl phthalate | 0.361 mg/Kg | < 0.361 mg/Kg |
| 2,4-Dinitrotoluene | 0.361 mg/Kg | < 0.361 mg/Kg |
| 2,6-Dinitrotoluene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Di-n-octylphthalate | 0.361 mg/Kg | < 0.361 mg/Kg |
| Fluoranthene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Fluorene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Hexachlorobenzene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Hexachlorobutadiene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Hexachlorocyclopentadiene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Hexachloroethane | 0.361 mg/Kg | < 0.361 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Isophorone | 0.361 mg/Kg | < 0.361 mg/Kg |

REPORT NUMBER : D97-8054-33
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Naphthalene | 0.361 mg/Kg | < 0.361 mg/Kg |
| 2-Nitroaniline | 1.81 mg/Kg | < 1.81 mg/Kg |
| 3-Nitroaniline | 1.81 mg/Kg | < 1.81 mg/Kg |
| 4-Nitroaniline | 1.81 mg/Kg | < 1.81 mg/Kg |
| Nitrobenzene | 0.361 mg/Kg | < 0.361 mg/Kg |
| N-Nitrosodiphenylamine | 0.361 mg/Kg | < 0.361 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.361 mg/Kg | < 0.361 mg/Kg |
| Phenanthrene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Pyrene | 0.361 mg/Kg | < 0.361 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.361 mg/Kg | < 0.361 mg/Kg |
| Benzoic acid | 0.876 mg/Kg | < 0.876 mg/Kg |
| 4-Chloro-3-methylphenol | 0.712 mg/Kg | < 0.712 mg/Kg |
| 2-Chlorophenol | 0.361 mg/Kg | < 0.361 mg/Kg |
| 2,4-Dichlorophenol | 0.361 mg/Kg | < 0.361 mg/Kg |
| 2,4-Dimethylphenol | 0.361 mg/Kg | < 0.361 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.81 mg/Kg | < 1.81 mg/Kg |
| 2,4-Dinitrophenol | 1.81 mg/Kg | < 1.81 mg/Kg |
| 2-Methylphenol | 0.361 mg/Kg | < 0.361 mg/Kg |
| 4-Methylphenol | 0.361 mg/Kg | < 0.361 mg/Kg |
| 2-Nitrophenol | 0.361 mg/Kg | < 0.361 mg/Kg |
| 4-Nitrophenol | 0.876 mg/Kg | < 0.876 mg/Kg |
| Pentachlorophenol | 1.81 mg/Kg | < 1.81 mg/Kg |
| Phenol | 0.361 mg/Kg | < 0.361 mg/Kg |
| 2,4,5-Trichlorophenol | 1.81 mg/Kg | < 1.81 mg/Kg |
| 2,4,6-Trichlorophenol | 0.361 mg/Kg | < 0.361 mg/Kg |



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REPORT NUMBER : D97-8054-33
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 68.9 % |
| 2-Fluorobiphenyl (SS) | | 65.9 % |
| Terphenyl-d14 (SS) | | 74.9 % |
| Phenol-d6 (SS) | | 76.9 % |
| 2-Fluorophenol (SS) | | 64.6 % |
| 2,4,6-Tribromophenol (SS) | | 76.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-33
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-34 LF-SB5 (2.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.36 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-34
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-35 LF-SB5 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 84.2 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154020H

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-34
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-35 LF-SB5 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.9 mg/Kg | 6490 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.38 mg/Kg | 6.15 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.19 mg/Kg | 73.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.36 mg/Kg | 0.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-34 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59.4 mg/Kg | 14800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.19 mg/Kg | 3.16 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.59 mg/Kg | 7.04 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.19 mg/Kg | 6.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.9 mg/Kg | 8500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.143 mg/Kg | < 0.143 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-34 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 2380 mg/Kg | < 2380 mg/Kg |
| Dilution Factor : 20<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 119 mg/Kg | 1760 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.19 mg/Kg | 91.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 119 mg/Kg | 565 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.19 mg/Kg | 5.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.594 mg/Kg | 21.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 5.94 mg/Kg | < 5.94 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-34 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.19 mg/Kg | < 1.19 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 3-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.69 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.19 mg/Kg | 12.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.38 mg/Kg | 62.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-34
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-35 LF-SB5 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 59.4 µg/Kg | < 59.4 µg/Kg |
| 2,4-DB | 59.4 µg/Kg | < 59.4 µg/Kg |
| 2,4,5-T | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2,4,5-TP(Silvex) | 5.94 µg/Kg | < 5.94 µg/Kg |
| Dalapon | 238 µg/Kg | 255 µg/Kg |
| Dicamba | 5.94 µg/Kg | < 5.94 µg/Kg |
| Dichlorprop | 59.4 µg/Kg | < 59.4 µg/Kg |
| Dinoseb | 23.8 µg/Kg | < 23.8 µg/Kg |
| MCPA | 23800 µg/Kg | < 23800 µg/Kg |
| MCPP | 23800 µg/Kg | < 23800 µg/Kg |



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REPORT NUMBER : D97-8054-34
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 69.7 % |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-34
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-35 LF-SB5 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 20
METHOD FACTOR : 660
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | | |
|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Aldrin | 62.9 µg/Kg | < | 62.9 µg/Kg |
| Alpha-BHC | 47.2 µg/Kg | < | 47.2 µg/Kg |
| Beta-BHC | 94.3 µg/Kg | < | 94.3 µg/Kg |
| Delta-BHC | 142 µg/Kg | < | 142 µg/Kg |
| Gamma-BHC(Lindane) | 62.9 µg/Kg | < | 62.9 µg/Kg |
| Chlordane | 220 µg/Kg | | 819 µg/Kg |
| 4,4'-DDD | 173 µg/Kg | < | 173 µg/Kg |
| 4,4'-DDE | 62.9 µg/Kg | < | 62.9 µg/Kg |
| 4,4'-DDT | 189 µg/Kg | < | 189 µg/Kg |
| Dieldrin | 31.4 µg/Kg | < | 31.4 µg/Kg |
| Endosulfan I | 220 µg/Kg | < | 220 µg/Kg |
| Endosulfan II | 62.9 µg/Kg | < | 62.9 µg/Kg |
| Endosulfan Sulfate | 1040 µg/Kg | < | 1040 µg/Kg |
| Endrin | 94.3 µg/Kg | < | 94.3 µg/Kg |



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REPORT NUMBER : D97-8054-34
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 362 | µg/Kg | < | 362 | µg/Kg |
| Heptachlor | 47.2 | µg/Kg | < | 47.2 | µg/Kg |
| Heptachlor Epoxide | 1310 | µg/Kg | < | 1310 | µg/Kg |
| Methoxychlor | 2770 | µg/Kg | < | 2770 | µg/Kg |
| Toxaphene | 3770 | µg/Kg | < | 3770 | µg/Kg |
| Aroclor-1016 | 1020 | µg/Kg | < | 1020 | µg/Kg |
| Aroclor-1221 | 1020 | µg/Kg | < | 1020 | µg/Kg |
| Aroclor-1232 | 1020 | µg/Kg | < | 1020 | µg/Kg |
| Aroclor-1242 | 1020 | µg/Kg | < | 1020 | µg/Kg |
| Aroclor-1248 | 1020 | µg/Kg | < | 1020 | µg/Kg |
| Aroclor-1254 | 1020 | µg/Kg | < | 1020 | µg/Kg |
| Aroclor-1260 | 1020 | µg/Kg | < | 1020 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 150 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 64.3 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-34
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-35 LF-SB5 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707081002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.8 µg/Kg | < 23.8 µg/Kg |
| Acrylonitrile | 5.94 µg/Kg | < 5.94 µg/Kg |
| Benzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromochloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromodichloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromoform | 5.94 µg/Kg | < 5.94 µg/Kg |
| Carbon disulfide | 5.94 µg/Kg | < 5.94 µg/Kg |
| Carbon tetrachloride | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloroform | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Chlorotoluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 4-Chlorotoluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Chloroethylvinyl ether | 11.9 µg/Kg | < 11.9 µg/Kg |
| Dibromochloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |



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REPORT NUMBER : D97-8054-34
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.7 µg/Kg | < 29.7 µg/Kg |
| 1,2-Dibromoethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,4-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,4-Dichloro-2-butene | 119 µg/Kg | < 119 µg/Kg |
| 1,1-Dichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| cis-1,2-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,2-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2,2-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| cis-1,3-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,3-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Ethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Hexanone | 59.4 µg/Kg | < 59.4 µg/Kg |
| Bromomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Dibromomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Butanone | 119 µg/Kg | < 119 µg/Kg |
| Iodomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Methylene chloride | 5.94 µg/Kg | < 5.94 µg/Kg |
| 4-Methyl-2-pentanone | 119 µg/Kg | < 119 µg/Kg |

REPORT NUMBER : D97-8054-34
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Tetrachloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Toluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,1-Trichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,2 Trichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Trichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Trichlorofluoromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,3-Trichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Vinyl acetate | 59.4 µg/Kg | < 59.4 µg/Kg |
| Vinyl chloride | 2.38 µg/Kg | < 2.38 µg/Kg |
| m,p-Xylene | 5.94 µg/Kg | < 5.94 µg/Kg |
| o-Xylene | 5.94 µg/Kg | < 5.94 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 113 % |
| Toluene-d8 (SS) | | 98.8 % |
| Bromofluorobenzene (SS) | | 107 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-34
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-35 LF-SB5 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707081002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-34
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-35 LF-SB5 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Acenaphthylene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(a)anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(b)fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(k)fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(g,h,i)perylene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(a)pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzyl alcohol | 0.772 mg/Kg | < 0.772 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-chloroethyl)ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.392 mg/Kg | < 0.392 mg/Kg |



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REPORT NUMBER : D97-8054-34
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Carbazole | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Chloroaniline | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Chloronaphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Chrysene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dibenz(a,h)anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dibenzofuran | 0.392 mg/Kg | < 0.392 mg/Kg |
| Di-n-butylphthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,2-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,3-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,4-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.392 mg/Kg | < 0.392 mg/Kg |
| Diethyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dimethyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dinitrotoluene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,6-Dinitrotoluene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Di-n-octylphthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Fluorene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorobutadiene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorocyclopentadiene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachloroethane | 0.392 mg/Kg | < 0.392 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Isophorone | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8054-34
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Naphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| 3-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| 4-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| Nitrobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| N-Nitrosodiphenylamine | 0.392 mg/Kg | < 0.392 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.392 mg/Kg | < 0.392 mg/Kg |
| Phenanthrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzoic acid | 0.950 mg/Kg | < 0.950 mg/Kg |
| 4-Chloro-3-methylphenol | 0.772 mg/Kg | < 0.772 mg/Kg |
| 2-Chlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dichlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dimethylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2,4-Dinitrophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2-Methylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Methylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Nitrophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Nitrophenol | 0.950 mg/Kg | < 0.950 mg/Kg |
| Pentachlorophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| Phenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4,5-Trichlorophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2,4,6-Trichlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |



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REPORT NUMBER : D97-8054-34
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 59.8 % |
| 2-Fluorobiphenyl (SS) | | 62.9 % |
| Terphenyl-d14 (SS) | | 66.5 % |
| Phenol-d6 (SS) | | 67.9 % |
| 2-Fluorophenol (SS) | | 59.2 % |
| 2,4,6-Tribromophenol (SS) | | 71.5 % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-34
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-35 LF-SB5 (5.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-35
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-36 LF-SB5 (10.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | DETECTION LIMIT | RESULTS |
|---|---|---|
| Total Solids /1 | 0.01 % | 85.4 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154020H

Applicable results are reported on Dry Weight basis.

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04083

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-35
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-36 LF-SB5 (10.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 11.7 mg/Kg | 6170 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 2.34 mg/Kg | 3.47 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.17 mg/Kg | 36.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-35 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.5 mg/Kg | 34700 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.17 mg/Kg | 2.05 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.59 mg/Kg | 4.28 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.17 mg/Kg | 3.41 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 11.7 mg/Kg | 5590 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.141 mg/Kg | < 0.141 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 1-JUL-1997 by CGJ<br>QC Batch No : HG-3940 | | | |

REPORT NUMBER : D97-8054-35 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 117 mg/Kg | 1260 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 117 mg/Kg | 1930 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.17 mg/Kg | 53.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 117 mg/Kg | 962 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.17 mg/Kg | 3.98 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.585 mg/Kg | 4.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 5.85 mg/Kg | < 5.85 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-35 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.17 mg/Kg | < 1.17 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.07 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.17 mg/Kg | 14.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.34 mg/Kg | 14.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-35
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-36 LF-SB5 (10.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.5 µg/Kg | < 58.5 µg/Kg |
| 2,4-DB | 58.5 µg/Kg | < 58.5 µg/Kg |
| 2,4,5-T | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2,4,5-TP(Silvex) | 5.85 µg/Kg | < 5.85 µg/Kg |
| Dalapon | 234 µg/Kg | < 234 µg/Kg |
| Dicamba | 5.85 µg/Kg | < 5.85 µg/Kg |
| Dichlorprop | 58.5 µg/Kg | < 58.5 µg/Kg |
| Dinoseb | 23.4 µg/Kg | < 23.4 µg/Kg |
| MCPA | 23400 µg/Kg | < 23400 µg/Kg |
| MCPP | 23400 µg/Kg | < 23400 µg/Kg |



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REPORT NUMBER : D97-8054-35
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 81.1 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-35
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-36 LF-SB5 (10.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.14 µg/Kg | < 3.14 µg/Kg |
| Alpha-BHC | 2.35 µg/Kg | < 2.35 µg/Kg |
| Beta-BHC | 4.71 µg/Kg | < 4.71 µg/Kg |
| Delta-BHC | 7.06 µg/Kg | < 7.06 µg/Kg |
| Gamma-BHC(Lindane) | 3.14 µg/Kg | < 3.14 µg/Kg |
| Chlordane | 11.0 µg/Kg | < 11.0 µg/Kg |
| 4,4'-DDD | 8.63 µg/Kg | < 8.63 µg/Kg |
| 4,4'-DDE | 3.14 µg/Kg | < 3.14 µg/Kg |
| 4,4'-DDT | 9.41 µg/Kg | < 9.41 µg/Kg |
| Dieldrin | 1.57 µg/Kg | < 1.57 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < 11.0 µg/Kg |
| Endosulfan II | 3.14 µg/Kg | < 3.14 µg/Kg |
| Endosulfan Sulfate | 51.8 µg/Kg | < 51.8 µg/Kg |
| Endrin | 4.71 µg/Kg | < 4.71 µg/Kg |



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REPORT NUMBER : D97-8054-35
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.0 µg/Kg | < 18.0 µg/Kg |
| Heptachlor | 2.35 µg/Kg | < 2.35 µg/Kg |
| Heptachlor Epoxide | 65.1 µg/Kg | < 65.1 µg/Kg |
| Methoxychlor | 138 µg/Kg | < 138 µg/Kg |
| Toxaphene | 188 µg/Kg | < 188 µg/Kg |
| Aroclor-1016 | 51.0 µg/Kg | < 51.0 µg/Kg |
| Aroclor-1221 | 51.0 µg/Kg | < 51.0 µg/Kg |
| Aroclor-1232 | 51.0 µg/Kg | < 51.0 µg/Kg |
| Aroclor-1242 | 51.0 µg/Kg | < 51.0 µg/Kg |
| Aroclor-1248 | 51.0 µg/Kg | < 51.0 µg/Kg |
| Aroclor-1254 | 51.0 µg/Kg | < 51.0 µg/Kg |
| Aroclor-1260 | 51.0 µg/Kg | < 51.0 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 94.4 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 86.1 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-35
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-36 LF-SB5 (10.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707081002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.4 µg/Kg | < 23.4 µg/Kg |
| Acrylonitrile | 5.85 µg/Kg | < 5.85 µg/Kg |
| Benzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Bromobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Bromochloromethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Bromodichloromethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Bromoform | 5.85 µg/Kg | < 5.85 µg/Kg |
| Carbon disulfide | 5.85 µg/Kg | < 5.85 µg/Kg |
| Carbon tetrachloride | 5.85 µg/Kg | < 5.85 µg/Kg |
| Chlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Chloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Chloroform | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2-Chlorotoluene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 4-Chlorotoluene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2-Chloroethylvinyl ether | 11.7 µg/Kg | < 11.7 µg/Kg |
| Dibromochloromethane | 5.85 µg/Kg | < 5.85 µg/Kg |



Intertek Testing Services NA Inc.
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Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8054-35
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.3 µg/Kg | < 29.3 µg/Kg |
| 1,2-Dibromoethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2-Dichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,3-Dichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,4-Dichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| trans-1,4-Dichloro-2-butene | 117 µg/Kg | < 117 µg/Kg |
| 1,1-Dichloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2-Dichloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1-Dichloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| cis-1,2-Dichloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| trans-1,2-Dichloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2-Dichloropropane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2,2-Dichloropropane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1-Dichloropropene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,3-Dichloropropane | 5.85 µg/Kg | < 5.85 µg/Kg |
| cis-1,3-Dichloropropene | 5.85 µg/Kg | < 5.85 µg/Kg |
| trans-1,3-Dichloropropene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Ethylbenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2-Hexanone | 58.5 µg/Kg | < 58.5 µg/Kg |
| Bromomethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Chloromethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Dibromomethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 2-Butanone | 117 µg/Kg | < 117 µg/Kg |
| Iodomethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Methylene chloride | 5.85 µg/Kg | < 5.85 µg/Kg |
| 4-Methyl-2-pentanone | 117 µg/Kg | < 117 µg/Kg |

REPORT NUMBER : D97-8054-35
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Tetrachloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Toluene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1,1-Trichloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,1,2-Trichloroethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| Trichloroethene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Trichlorofluoromethane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2,3-Trichloropropane | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.85 µg/Kg | < 5.85 µg/Kg |
| Vinyl acetate | 58.5 µg/Kg | < 58.5 µg/Kg |
| Vinyl chloride | 2.34 µg/Kg | < 2.34 µg/Kg |
| m,p-Xylene | 5.85 µg/Kg | < 5.85 µg/Kg |
| o-Xylene | 5.85 µg/Kg | < 5.85 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 116 % |
| Toluene-d8 (SS) | | 106 % |
| Bromofluorobenzene (SS) | | 113 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-35
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-36 LF-SB5 (10.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707081002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-35
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-36 LF-SB5 (10.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 4-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Acenaphthylene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Anthracene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(a)anthracene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(b)fluoranthene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(k)fluoranthene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(g,h,i)perylene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzo(a)pyrene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzyl alcohol | 0.761 mg/Kg | < 0.761 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.386 mg/Kg | < 0.386 mg/Kg |
| Bis(2-chloroethyl)ether | 0.386 mg/Kg | < 0.386 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.386 mg/Kg | < 0.386 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.386 mg/Kg | < 0.386 mg/Kg |



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REPORT NUMBER : D97-8054-35
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| Carbazole | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Chloroaniline | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2-Chloronaphthalene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.386 mg/Kg | < 0.386 mg/Kg |
| Chrysene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Dibenz(a,h)anthracene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Dibenzofuran | 0.386 mg/Kg | < 0.386 mg/Kg |
| Di-n-butylphthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| 1,2-Dichlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 1,3-Dichlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 1,4-Dichlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.386 mg/Kg | < 0.386 mg/Kg |
| Diethyl phthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| Dimethyl phthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,4-Dinitrotoluene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,6-Dinitrotoluene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Di-n-octylphthalate | 0.386 mg/Kg | < 0.386 mg/Kg |
| Fluoranthene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Fluorene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Hexachlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Hexachlorobutadiene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Hexachlorocyclopentadiene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Hexachloroethane | 0.386 mg/Kg | < 0.386 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Isophorone | 0.386 mg/Kg | < 0.386 mg/Kg |

REPORT NUMBER : D97-8054-35
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Naphthalene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2-Nitroaniline | 1.93 mg/Kg | < 1.93 mg/Kg |
| 3-Nitroaniline | 1.93 mg/Kg | < 1.93 mg/Kg |
| 4-Nitroaniline | 1.93 mg/Kg | < 1.93 mg/Kg |
| Nitrobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| N-Nitrosodiphenylamine | 0.386 mg/Kg | < 0.386 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.386 mg/Kg | < 0.386 mg/Kg |
| Phenanthrene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Pyrene | 0.386 mg/Kg | < 0.386 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.386 mg/Kg | < 0.386 mg/Kg |
| Benzoic acid | 0.937 mg/Kg | < 0.937 mg/Kg |
| 4-Chloro-3-methylphenol | 0.761 mg/Kg | < 0.761 mg/Kg |
| 2-Chlorophenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,4-Dichlorophenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,4-Dimethylphenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.93 mg/Kg | < 1.93 mg/Kg |
| 2,4-Dinitrophenol | 1.93 mg/Kg | < 1.93 mg/Kg |
| 2-Methylphenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Methylphenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2-Nitrophenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 4-Nitrophenol | 0.937 mg/Kg | < 0.937 mg/Kg |
| Pentachlorophenol | 1.93 mg/Kg | < 1.93 mg/Kg |
| Phenol | 0.386 mg/Kg | < 0.386 mg/Kg |
| 2,4,5-Trichlorophenol | 1.93 mg/Kg | < 1.93 mg/Kg |
| 2,4,6-Trichlorophenol | 0.386 mg/Kg | < 0.386 mg/Kg |



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REPORT NUMBER : D97-8054-35
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 60.8 % |
| 2-Fluorobiphenyl (SS) | | 56.4 % |
| Terphenyl-d14 (SS) | | 66.6 % |
| Phenol-d6 (SS) | | 67.0 % |
| 2-Fluorophenol (SS) | | 60.8 % |
| 2,4,6-Tribromophenol (SS) | | 48.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-35
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-36 LF-SB5 (10.0)
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 28-JUN-1997
ANALYZED BY : VDL
ANALYZED ON : 4-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 12 ug/L |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-36
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-37 DR-SD1
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | DETECTION LIMIT | RESULTS |
|---|---|---|
| Total Solids /1 | 0.01 % | 70.6 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154020H

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-37 DR-SD1
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.71 mg/Kg | < 0.71 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Aluminum | /1 | 14.2 mg/Kg | 4580 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Arsenic | /1 | 0.567 mg/Kg | 2.02 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Barium | /1 | 1.42 mg/Kg | 50.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Beryllium | /1 | 0.42 mg/Kg | < 0.42 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |



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REPORT NUMBER : D97-8054-36 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 70.8 mg/Kg | 13900 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cadmium | /1 | 0.71 mg/Kg | < 0.71 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Cobalt | /1 | 1.42 mg/Kg | 2.89 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Chromium | /1 | 0.71 mg/Kg | 4.02 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Copper | /1 | 1.42 mg/Kg | 3.49 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Iron | /1 | 14.2 mg/Kg | 5860 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Mercury | /1 | 0.170 mg/Kg | < 0.170 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-36 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 142 mg/Kg | 1220 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Magnesium | /1 | 142 mg/Kg | 1500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Manganese | /1 | 1.42 mg/Kg | 57.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Sodium | /1 | 142 mg/Kg | 443 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Nickel | /1 | 1.42 mg/Kg | 4.41 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Lead | /1 | 0.708 mg/Kg | 7.54 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Antimony | /1 | 7.08 mg/Kg | < 7.08 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

REPORT NUMBER : D97-8054-36 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.42 mg/Kg | < 1.42 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 4-JUL-1997 by GGD<br>QC Batch No : 17701F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Thallium | /1 | 1.4 mg/Kg | < 1.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Vanadium | /1 | 1.42 mg/Kg | 9.44 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |
| Zinc | /1 | 2.83 mg/Kg | 23.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 2-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 8-JUL-1997 by GAY<br>QC Batch No : 17499 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-36
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-37 DR-SD1
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 3
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2,4-D | 212 | µg/Kg | < | 212 | µg/Kg |
| 2,4-DB | 212 | µg/Kg | < | 212 | µg/Kg |
| 2,4,5-T | 21.2 | µg/Kg | < | 21.2 | µg/Kg |
| 2,4,5-TP(Silvex) | 21.2 | µg/Kg | < | 21.2 | µg/Kg |
| Dalapon | 850 | µg/Kg | < | 850 | µg/Kg |
| Dicamba | 21.2 | µg/Kg | < | 21.2 | µg/Kg |
| Dichlorprop | 212 | µg/Kg | < | 212 | µg/Kg |
| Dinoseb | 85.0 | µg/Kg | < | 85.0 | µg/Kg |
| MCPA | 85000 | µg/Kg | < | 85000 | µg/Kg |
| MCPP | 85000 | µg/Kg | < | 85000 | µg/Kg |



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REPORT NUMBER : D97-8054-36
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 80.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-36
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-37 DR-SD1
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 5
METHOD FACTOR : 670
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Aldrin | 18.8 | µg/Kg | < | 18.8 | µg/Kg |
| Alpha-BHC | 14.1 | µg/Kg | < | 14.1 | µg/Kg |
| Beta-BHC | 28.3 | µg/Kg | < | 28.3 | µg/Kg |
| Delta-BHC | 42.4 | µg/Kg | < | 42.4 | µg/Kg |
| Gamma-BHC(Lindane) | 18.8 | µg/Kg | < | 18.8 | µg/Kg |
| Chlordane | 65.9 | µg/Kg | | 783 | µg/Kg |
| 4,4'-DDD | 51.8 | µg/Kg | < | 51.8 | µg/Kg |
| 4,4'-DDE | 18.8 | µg/Kg | < | 18.8 | µg/Kg |
| 4,4'-DDT | 56.5 | µg/Kg | < | 56.5 | µg/Kg |
| Dieldrin | 9.42 | µg/Kg | < | 9.42 | µg/Kg |
| Endosulfan I | 65.9 | µg/Kg | < | 65.9 | µg/Kg |
| Endosulfan II | 18.8 | µg/Kg | < | 18.8 | µg/Kg |
| Endosulfan Sulfate | 311 | µg/Kg | < | 311 | µg/Kg |
| Endrin | 28.3 | µg/Kg | < | 28.3 | µg/Kg |



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REPORT NUMBER : D97-8054-36
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 108 | µg/Kg | < | 108 | µg/Kg |
| Heptachlor | 14.1 | µg/Kg | < | 14.1 | µg/Kg |
| Heptachlor Epoxide | 391 | µg/Kg | < | 391 | µg/Kg |
| Methoxychlor | 829 | µg/Kg | < | 829 | µg/Kg |
| Toxaphene | 1130 | µg/Kg | < | 1130 | µg/Kg |
| Aroclor-1016 | 306 | µg/Kg | < | 306 | µg/Kg |
| Aroclor-1221 | 306 | µg/Kg | < | 306 | µg/Kg |
| Aroclor-1232 | 306 | µg/Kg | < | 306 | µg/Kg |
| Aroclor-1242 | 306 | µg/Kg | < | 306 | µg/Kg |
| Aroclor-1248 | 306 | µg/Kg | < | 306 | µg/Kg |
| Aroclor-1254 | 306 | µg/Kg | < | 306 | µg/Kg |
| Aroclor-1260 | 306 | µg/Kg | < | 306 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 87.0 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 96.0 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-36
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-37 DR-SD1
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707081002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 28.3 µg/Kg | < 28.3 µg/Kg |
| Acrylonitrile | 7.08 µg/Kg | < 7.08 µg/Kg |
| Benzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| Bromobenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| Bromochloromethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| Bromodichloromethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| Bromoform | 7.08 µg/Kg | < 7.08 µg/Kg |
| Carbon disulfide | 7.08 µg/Kg | < 7.08 µg/Kg |
| Carbon tetrachloride | 7.08 µg/Kg | < 7.08 µg/Kg |
| Chlorobenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| Chloroethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| Chloroform | 7.08 µg/Kg | < 7.08 µg/Kg |
| 2-Chlorotoluene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 4-Chlorotoluene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 2-Chloroethylvinyl ether | 14.2 µg/Kg | < 14.2 µg/Kg |
| Dibromochloromethane | 7.08 µg/Kg | < 7.08 µg/Kg |



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REPORT NUMBER : D97-8054-36
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 35.4 µg/Kg | < 35.4 µg/Kg |
| 1,2-Dibromoethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,2-Dichlorobenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,3-Dichlorobenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,4-Dichlorobenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| trans-1,4-Dichloro-2-butene | 142 µg/Kg | < 142 µg/Kg |
| 1,1-Dichloroethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,2-Dichloroethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,1-Dichloroethene | 7.08 µg/Kg | < 7.08 µg/Kg |
| cis-1,2-Dichloroethene | 7.08 µg/Kg | < 7.08 µg/Kg |
| trans-1,2-Dichloroethene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,2-Dichloropropane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 2,2-Dichloropropane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,1-Dichloropropene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,3-Dichloropropane | 7.08 µg/Kg | < 7.08 µg/Kg |
| cis-1,3-Dichloropropene | 7.08 µg/Kg | < 7.08 µg/Kg |
| trans-1,3-Dichloropropene | 7.08 µg/Kg | < 7.08 µg/Kg |
| Ethylbenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 2-Hexanone | 70.8 µg/Kg | < 70.8 µg/Kg |
| Bromomethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| Chloromethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| Dibromomethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 2-Butanone | 142 µg/Kg | < 142 µg/Kg |
| Iodomethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| Methylene chloride | 7.08 µg/Kg | < 7.08 µg/Kg |
| 4-Methyl-2-pentanone | 142 µg/Kg | < 142 µg/Kg |

REPORT NUMBER : D97-8054-36
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| Tetrachloroethene | 7.08 µg/Kg | < 7.08 µg/Kg |
| Toluene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,2,3-Trichlorobenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,2,4-Trichlorobenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,1,1-Trichloroethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,1,2-Trichloroethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| Trichloroethene | 7.08 µg/Kg | < 7.08 µg/Kg |
| Trichlorofluoromethane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,2,3-Trichloropropane | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,3,5-Trimethylbenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| 1,2,4-Trimethylbenzene | 7.08 µg/Kg | < 7.08 µg/Kg |
| Vinyl acetate | 70.8 µg/Kg | < 70.8 µg/Kg |
| Vinyl chloride | 2.83 µg/Kg | < 2.83 µg/Kg |
| m,p-Xylene | 7.08 µg/Kg | < 7.08 µg/Kg |
| o-Xylene | 7.08 µg/Kg | < 7.08 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 119 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 109 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-36
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-37 DR-SD1
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707081002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 14 ug/Kg |

Applicable results are reported on Dry Weight basis.

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## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-36
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-37 DR-SD1
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Acenaphthylene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Anthracene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Benzo(a)anthracene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Benzo(b)fluoranthene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Benzo(k)fluoranthene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Benzo(g,h,i)perylene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Benzo(a)pyrene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Benzyl alcohol | 0.921 mg/Kg | < 0.921 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.467 mg/Kg | < 0.467 mg/Kg |
| Bis(2-chloroethyl)ether | 0.467 mg/Kg | < 0.467 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.467 mg/Kg | < 0.467 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.467 mg/Kg | < 0.467 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.467 mg/Kg | < 0.467 mg/Kg |



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REPORT NUMBER : D97-8054-36
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.467 mg/Kg | < 0.467 mg/Kg |
| Carbazole | 0.467 mg/Kg | < 0.467 mg/Kg |
| 4-Chloroaniline | 0.467 mg/Kg | < 0.467 mg/Kg |
| 2-Chloronaphthalene | 0.467 mg/Kg | < 0.467 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.467 mg/Kg | < 0.467 mg/Kg |
| Chrysene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Dibenz(a,h)anthracene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Dibenzofuran | 0.467 mg/Kg | < 0.467 mg/Kg |
| Di-n-butylphthalate | 0.467 mg/Kg | < 0.467 mg/Kg |
| 1,2-Dichlorobenzene | 0.467 mg/Kg | < 0.467 mg/Kg |
| 1,3-Dichlorobenzene | 0.467 mg/Kg | < 0.467 mg/Kg |
| 1,4-Dichlorobenzene | 0.467 mg/Kg | < 0.467 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.467 mg/Kg | < 0.467 mg/Kg |
| Diethyl phthalate | 0.467 mg/Kg | < 0.467 mg/Kg |
| Dimethyl phthalate | 0.467 mg/Kg | < 0.467 mg/Kg |
| 2,4-Dinitrotoluene | 0.467 mg/Kg | < 0.467 mg/Kg |
| 2,6-Dinitrotoluene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Di-n-octylphthalate | 0.467 mg/Kg | < 0.467 mg/Kg |
| Fluoranthene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Fluorene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Hexachlorobenzene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Hexachlorobutadiene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Hexachlorocyclopentadiene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Hexachloroethane | 0.467 mg/Kg | < 0.467 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Isophorone | 0.467 mg/Kg | < 0.467 mg/Kg |

REPORT NUMBER : D97-8054-36
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Naphthalene | 0.467 mg/Kg | < 0.467 mg/Kg |
| 2-Nitroaniline | 2.34 mg/Kg | < 2.34 mg/Kg |
| 3-Nitroaniline | 2.34 mg/Kg | < 2.34 mg/Kg |
| 4-Nitroaniline | 2.34 mg/Kg | < 2.34 mg/Kg |
| Nitrobenzene | 0.467 mg/Kg | < 0.467 mg/Kg |
| N-Nitrosodiphenylamine | 0.467 mg/Kg | < 0.467 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.467 mg/Kg | < 0.467 mg/Kg |
| Phenanthrene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Pyrene | 0.467 mg/Kg | < 0.467 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.467 mg/Kg | < 0.467 mg/Kg |
| Benzoic acid | 1.13 mg/Kg | < 1.13 mg/Kg |
| 4-Chloro-3-methylphenol | 0.921 mg/Kg | < 0.921 mg/Kg |
| 2-Chlorophenol | 0.467 mg/Kg | < 0.467 mg/Kg |
| 2,4-Dichlorophenol | 0.467 mg/Kg | < 0.467 mg/Kg |
| 2,4-Dimethylphenol | 0.467 mg/Kg | < 0.467 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.34 mg/Kg | < 2.34 mg/Kg |
| 2,4-Dinitrophenol | 2.34 mg/Kg | < 2.34 mg/Kg |
| 2-Methylphenol | 0.467 mg/Kg | < 0.467 mg/Kg |
| 4-Methylphenol | 0.467 mg/Kg | < 0.467 mg/Kg |
| 2-Nitrophenol | 0.467 mg/Kg | < 0.467 mg/Kg |
| 4-Nitrophenol | 1.13 mg/Kg | < 1.13 mg/Kg |
| Pentachlorophenol | 2.34 mg/Kg | < 2.34 mg/Kg |
| Phenol | 0.467 mg/Kg | < 0.467 mg/Kg |
| 2,4,5-Trichlorophenol | 2.34 mg/Kg | < 2.34 mg/Kg |
| 2,4,6-Trichlorophenol | 0.467 mg/Kg | < 0.467 mg/Kg |

REPORT NUMBER : D97-8054-36
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 63.5 % |
| 2-Fluorobiphenyl (SS) | | 68.9 % |
| Terphenyl-d14 (SS) | | 80.2 % |
| Phenol-d6 (SS) | | 68.5 % |
| 2-Fluorophenol (SS) | | 62.8 % |
| 2,4,6-Tribromophenol (SS) | | 69.7 % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-36
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-37 DR-SD1
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.47 mg/Kg |

Applicable results are reported on Dry Weight basis.

04123

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-37
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-38 DR-SD1QC
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 73.0 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154020H | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-37
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-38 DR-SD1QC
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.68 mg/Kg | < 0.68 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Aluminum | /1 | 13.7 mg/Kg | 6550 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Arsenic | /1 | 0.548 mg/Kg | 2.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 8-JUL-1997 by AH<br>QC Batch No : 17705F | | | |
| Barium | /1 | 1.37 mg/Kg | 62.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Beryllium | /1 | 0.41 mg/Kg | < 0.41 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |



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Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8054-37 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 68.5 mg/Kg | 15700 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Cadmium | /1 | 0.68 mg/Kg | < 0.68 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Cobalt | /1 | 1.37 mg/Kg | 2.96 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Chromium | /1 | 0.68 mg/Kg | 5.86 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Copper | /1 | 1.37 mg/Kg | 4.66 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Iron | /1 | 13.7 mg/Kg | 7480 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Mercury | /1 | 0.164 mg/Kg | < 0.164 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-37 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 137 mg/Kg | 1650 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Magnesium | /1 | 137 mg/Kg | 1990 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Manganese | /1 | 1.37 mg/Kg | 69.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Sodium | /1 | 137 mg/Kg | 473 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Nickel | /1 | 1.37 mg/Kg | 5.38 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Lead | /1 | 0.685 mg/Kg | 10.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Antimony | /1 | 6.85 mg/Kg | < 6.85 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |



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REPORT NUMBER : D97-8054-37 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.37 mg/Kg | < 1.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17705F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.47 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Thallium | /1 | 1.4 mg/Kg | < 1.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Vanadium | /1 | 1.37 mg/Kg | 12.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Zinc | /1 | 2.74 mg/Kg | 29.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-37
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-38 DR-SD1QC
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 2
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | | |
|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| 2,4-D | 137 µg/Kg | < | 137 µg/Kg |
| 2,4-DB | 137 µg/Kg | < | 137 µg/Kg |
| 2,4,5-T | 13.7 µg/Kg | < | 13.7 µg/Kg |
| 2,4,5-TP(Silvex) | 13.7 µg/Kg | < | 13.7 µg/Kg |
| Dalapon | 548 µg/Kg | < | 548 µg/Kg |
| Dicamba | 13.7 µg/Kg | < | 13.7 µg/Kg |
| Dichlorprop | 137 µg/Kg | < | 137 µg/Kg |
| Dinoseb | 54.8 µg/Kg | < | 54.8 µg/Kg |
| MCPA | 54800 µg/Kg | < | 54800 µg/Kg |
| MCPP | 54800 µg/Kg | < | 54800 µg/Kg |



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REPORT NUMBER : D97-8054-37
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 78.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-37
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-38 DR-SD1QC
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 20
METHOD FACTOR : 640
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Aldrin | 70.4 | µg/Kg | < | 70.4 | µg/Kg |
| Alpha-BHC | 52.8 | µg/Kg | < | 52.8 | µg/Kg |
| Beta-BHC | 106 | µg/Kg | < | 106 | µg/Kg |
| Delta-BHC | 158 | µg/Kg | < | 158 | µg/Kg |
| Gamma-BHC(Lindane) | 70.4 | µg/Kg | < | 70.4 | µg/Kg |
| Chlordane | 246 | µg/Kg | | 1110 | µg/Kg |
| 4,4'-DDD | 193 | µg/Kg | < | 193 | µg/Kg |
| 4,4'-DDE | 70.4 | µg/Kg | < | 70.4 | µg/Kg |
| 4,4'-DDT | 211 | µg/Kg | < | 211 | µg/Kg |
| Dieldrin | 35.2 | µg/Kg | < | 35.2 | µg/Kg |
| Endosulfan I | 246 | µg/Kg | < | 246 | µg/Kg |
| Endosulfan II | 70.4 | µg/Kg | < | 70.4 | µg/Kg |
| Endosulfan Sulfate | 1160 | µg/Kg | < | 1160 | µg/Kg |
| Endrin | 106 | µg/Kg | < | 106 | µg/Kg |



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REPORT NUMBER : D97-8054-37
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 405 | µg/Kg | < | 405 | µg/Kg |
| Heptachlor | 52.8 | µg/Kg | < | 52.8 | µg/Kg |
| Heptachlor Epoxide | 1460 | µg/Kg | < | 1460 | µg/Kg |
| Methoxychlor | 3100 | µg/Kg | < | 3100 | µg/Kg |
| Toxaphene | 4220 | µg/Kg | < | 4220 | µg/Kg |
| Aroclor-1016 | 1140 | µg/Kg | < | 1140 | µg/Kg |
| Aroclor-1221 | 1140 | µg/Kg | < | 1140 | µg/Kg |
| Aroclor-1232 | 1140 | µg/Kg | < | 1140 | µg/Kg |
| Aroclor-1242 | 1140 | µg/Kg | < | 1140 | µg/Kg |
| Aroclor-1248 | 1140 | µg/Kg | < | 1140 | µg/Kg |
| Aroclor-1254 | 1140 | µg/Kg | < | 1140 | µg/Kg |
| Aroclor-1260 | 1140 | µg/Kg | < | 1140 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 146 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 71.6 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-37
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-38 DR-SD1QC
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707082001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 27.4 µg/Kg | < 27.4 µg/Kg |
| Acrylonitrile | 6.85 µg/Kg | < 6.85 µg/Kg |
| Benzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Bromobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Bromochloromethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Bromodichloromethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Bromoform | 6.85 µg/Kg | < 6.85 µg/Kg |
| Carbon disulfide | 6.85 µg/Kg | < 6.85 µg/Kg |
| Carbon tetrachloride | 6.85 µg/Kg | < 6.85 µg/Kg |
| Chlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Chloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Chloroform | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2-Chlorotoluene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 4-Chlorotoluene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2-Chloroethylvinyl ether | 13.7 µg/Kg | < 13.7 µg/Kg |
| Dibromochloromethane | 6.85 µg/Kg | < 6.85 µg/Kg |

REPORT NUMBER : D97-8054-37
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 34.2 µg/Kg | < 34.2 µg/Kg |
| 1,2-Dibromoethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2-Dichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,3-Dichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,4-Dichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| trans-1,4-Dichloro-2-butene | 137 µg/Kg | < 137 µg/Kg |
| 1,1-Dichloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2-Dichloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1-Dichloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| cis-1,2-Dichloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| trans-1,2-Dichloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2-Dichloropropane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2,2-Dichloropropane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1-Dichloropropene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,3-Dichloropropane | 6.85 µg/Kg | < 6.85 µg/Kg |
| cis-1,3-Dichloropropene | 6.85 µg/Kg | < 6.85 µg/Kg |
| trans-1,3-Dichloropropene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Ethylbenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2-Hexanone | 68.5 µg/Kg | < 68.5 µg/Kg |
| Bromomethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Chloromethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Dibromomethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2-Butanone | 137 µg/Kg | < 137 µg/Kg |
| Iodomethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Methylene chloride | 6.85 µg/Kg | < 6.85 µg/Kg |
| 4-Methyl-2-pentanone | 137 µg/Kg | < 137 µg/Kg |

REPORT NUMBER : D97-8054-37
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Tetrachloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Toluene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1,1-Trichloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1,2-Trichloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Trichloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Trichlorofluoromethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2,3-Trichloropropane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Vinyl acetate | 68.5 µg/Kg | < 68.5 µg/Kg |
| Vinyl chloride | 2.74 µg/Kg | < 2.74 µg/Kg |
| m,p-Xylene | 6.85 µg/Kg | < 6.85 µg/Kg |
| o-Xylene | 6.85 µg/Kg | < 6.85 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 101 % |
| Toluene-d8 (SS) | | 112 % |
| Bromofluorobenzene (SS) | | 97.0 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-37
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-38 DR-SD1QC
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707082001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 14 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-37
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-38 DR-SD1QC
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Acenaphthylene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Anthracene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Benzo(a)anthracene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Benzo(b)fluoranthene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Benzo(k)fluoranthene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Benzo(g,h,i)perylene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Benzo(a)pyrene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Benzyl alcohol | 0.890 mg/Kg | < 0.890 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.452 mg/Kg | < 0.452 mg/Kg |
| Bis(2-chloroethyl)ether | 0.452 mg/Kg | < 0.452 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.452 mg/Kg | < 0.452 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.452 mg/Kg | < 0.452 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.452 mg/Kg | < 0.452 mg/Kg |



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REPORT NUMBER : D97-8054-37 PAGE 2
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.452 mg/Kg | < 0.452 mg/Kg |
| Carbazole | 0.452 mg/Kg | < 0.452 mg/Kg |
| 4-Chloroaniline | 0.452 mg/Kg | < 0.452 mg/Kg |
| 2-Chloronaphthalene | 0.452 mg/Kg | < 0.452 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.452 mg/Kg | < 0.452 mg/Kg |
| Chrysene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Dibenz(a,h)anthracene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Dibenzofuran | 0.452 mg/Kg | < 0.452 mg/Kg |
| Di-n-butylphthalate | 0.452 mg/Kg | < 0.452 mg/Kg |
| 1,2-Dichlorobenzene | 0.452 mg/Kg | < 0.452 mg/Kg |
| 1,3-Dichlorobenzene | 0.452 mg/Kg | < 0.452 mg/Kg |
| 1,4-Dichlorobenzene | 0.452 mg/Kg | < 0.452 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.452 mg/Kg | < 0.452 mg/Kg |
| Diethyl phthalate | 0.452 mg/Kg | < 0.452 mg/Kg |
| Dimethyl phthalate | 0.452 mg/Kg | < 0.452 mg/Kg |
| 2,4-Dinitrotoluene | 0.452 mg/Kg | < 0.452 mg/Kg |
| 2,6-Dinitrotoluene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Di-n-octylphthalate | 0.452 mg/Kg | < 0.452 mg/Kg |
| Fluoranthene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Fluorene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Hexachlorobenzene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Hexachlorobutadiene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Hexachlorocyclopentadiene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Hexachloroethane | 0.452 mg/Kg | < 0.452 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Isophorone | 0.452 mg/Kg | < 0.452 mg/Kg |

REPORT NUMBER : D97-8054-37
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Naphthalene | 0.452 mg/Kg | < 0.452 mg/Kg |
| 2-Nitroaniline | 2.26 mg/Kg | < 2.26 mg/Kg |
| 3-Nitroaniline | 2.26 mg/Kg | < 2.26 mg/Kg |
| 4-Nitroaniline | 2.26 mg/Kg | < 2.26 mg/Kg |
| Nitrobenzene | 0.452 mg/Kg | < 0.452 mg/Kg |
| N-Nitrosodiphenylamine | 0.452 mg/Kg | < 0.452 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.452 mg/Kg | < 0.452 mg/Kg |
| Phenanthrene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Pyrene | 0.452 mg/Kg | < 0.452 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.452 mg/Kg | < 0.452 mg/Kg |
| Benzoic acid | 1.10 mg/Kg | < 1.10 mg/Kg |
| 4-Chloro-3-methylphenol | 0.890 mg/Kg | < 0.890 mg/Kg |
| 2-Chlorophenol | 0.452 mg/Kg | < 0.452 mg/Kg |
| 2,4-Dichlorophenol | 0.452 mg/Kg | < 0.452 mg/Kg |
| 2,4-Dimethylphenol | 0.452 mg/Kg | < 0.452 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.26 mg/Kg | < 2.26 mg/Kg |
| 2,4-Dinitrophenol | 2.26 mg/Kg | < 2.26 mg/Kg |
| 2-Methylphenol | 0.452 mg/Kg | < 0.452 mg/Kg |
| 4-Methylphenol | 0.452 mg/Kg | < 0.452 mg/Kg |
| 2-Nitrophenol | 0.452 mg/Kg | < 0.452 mg/Kg |
| 4-Nitrophenol | 1.10 mg/Kg | < 1.10 mg/Kg |
| Pentachlorophenol | 2.26 mg/Kg | < 2.26 mg/Kg |
| Phenol | 0.452 mg/Kg | < 0.452 mg/Kg |
| 2,4,5-Trichlorophenol | 2.26 mg/Kg | < 2.26 mg/Kg |
| 2,4,6-Trichlorophenol | 0.452 mg/Kg | < 0.452 mg/Kg |



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8054-37
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 70.1 % |
| 2-Fluorobiphenyl (SS) | | 71.9 % |
| Terphenyl-d14 (SS) | | 104 % |
| Phenol-d6 (SS) | | 79.9 % |
| 2-Fluorophenol (SS) | | 68.8 % |
| 2,4,6-Tribromophenol (SS) | | 72.7 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-37
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-38 DR-SD1QC
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Hexatriacontane | 19.88 | ABN | 0.85 mg/Kg |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

U.S. ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, Texas 75235

**Report Date:** 25 July 1997

**District:** Tulsa
**Date Sampled:** 29-Jun-1997
**Field Number:** DR-SD1QA
**SWD Number:** S70315-39
**Batch Number:** Arsenic: 7-108S
Thallium:7-104S
Selenium:7-108S
**Sample Matrix:** Soil

**Project:** Laredo
**Location:** Landfill
**Date Received:** 30-Jun-1997

Mercury:Hg31S97
Antimony:7-104S

**Analyst:** DN, RAR

| Parameter | MDL | LRL | Results | Units | Date Analyzed | Dilution Factor | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 0.2 | 0.5 | 0.79* | mg/Kg | 07/08/97 | 1 | 7041 |
| Arsenic | 0.03 | 0.25 | 2.2* | mg/Kg | 07/10/97 | 1 | 7060 |
| Mercury | 0.005 | 0.02 | 0.020J | mg/Kg | 07/15/97 | 1 | 7471 |
| Selenium | 0.05 | 0.25 | 0.36* | mg/Kg | 07/09/97 | 1 | 7740 |
| Thallium | 0.2 | 0.5 | <0.2* | mg/Kg | 07/07/97 | 1 | 7841 |

MDL - Method Detection Limit  LRL# - Laboratory Reporting Limit
*Metals anlayzed by Method of Std Additions
#The LRL is the lowest standard used in constructing the calibration curve. Any value between the MDL and LRL is a "J" value.

04142

# ENVIRONMENTAL CHEMICAL CORPORATION

SAMPLE NUMBER

S70315-39

Customer: US ARMY CORPS OF ENGINEERS - SWDL
Source: Laredo - SFL: LANDFILL
Location: DR-SD1QA
**Analysis:** TOTAL METALS
Prep. Batch(es): DIGSP728

Instrument Batch(es): I730B

Login Number : S70315
Lab Sample I.D.: 24387-001
Date Sampled: 06/29/97
Date Received: 07/23/97
Matrix: (soil/water): SEDIMENT
Lab Notebook No(s): 683
Percent Solids: 71

**SAMPLE RESULTS**

| Analyte | R.L. mg/kg | Results mg/kg | Analysis Method | Analysis Date |
|---|---|---|---|---|
| Aluminum | 9.7 | 7470 | EPA 6010A | 07/30/97 |
| Antimony | 11.1 | < 11.1 | EPA 6010A | 07/30/97 |
| Barium | 0.28 | 101 | EPA 6010A | 07/30/97 |
| Beryllium | 0.28 | 0.42 | EPA 6010A | 07/30/97 |
| Cadmium | 1.4 | < 1.4 | EPA 6010A | 07/30/97 |
| Calcium | 166 | 27700 | EPA 6010A | 07/30/97 |
| Chromium | 1.4 | 6.4 | EPA 6010A | 07/30/97 |
| Cobalt | 1.4 | 5.0 | EPA 6010A | 07/30/97 |
| Copper | 2.1 | 5.9 | EPA 6010A | 07/30/97 |
| Iron | 6.9 | 10700 | EPA 6010A | 07/30/97 |
| Lead | 6.9 | 48.3 | EPA 6010A | 07/30/97 |
| Magnesium | 69.4 | 2450 | EPA 6010A | 07/30/97 |
| Manganese | 0.69 | 97.0 | EPA 6010A | 07/30/97 |
| Nickel | 6.2 | 7.0 | EPA 6010A | 07/30/97 |
| Potassium | 27.7 | 2010 | EPA 6010A | 07/30/97 |
| Silver | 1.4 | < 1.4 | EPA 6010A | 07/30/97 |
| Sodium | 69.4 | 673 | EPA 6010A | 07/30/97 |
| Thallium | 34.7 | < 34.7 | EPA 6010A | 07/30/97 |
| Tin | 13.9 | < 13.9 | EPA 6010A | 07/30/97 |
| Vanadium | 0.69 | 16.2 | EPA 6010A | 07/30/97 |
| Zinc | 2.8 | 46.9 | EPA 6010A | 07/30/97 |

**R.L. : Reporting Limit**

04143

# ENVIRONMENTAL CHEMICAL CORPORATION

SAMPLE NUMBER

S70315-39

Customer: US ARMY CORPS OF ENGINEERS - SWDL

Source: Larado - SFL: LANDFILL

Login Number : S70315

Location: DR-SD1QA

**Analysis:** HERBICIDE EPA 8150

| | | | |
|---|---|---|---|
| Matrix:(soil/water) | SOIL | Lab Sample I.D.: | 24300-001 |
| Sample Weight: | 5.0 g | Date Sampled: | 06/29/97 |
| Extract Volume: | 1.0 mL | Date Received: | 07/02/97 |
| | | Date Extracted: | 07/15/97 |
| | | Date Analyzed: | 07/16/97 |
| Percent Solid: | 71 % | **PreparationBatch:** | HS0715 |
| Dilution Factor: | 1 | **Instrument Batch:** | HERB0716 |
| Lab Notebook No: | 503, p.51 | | |

SAMPLE RESULTS

| | CAS NO. | COMPOUND | REPORTING LIMITS (µg/kg) | RESULTS (µg/kg) | FLAG |
|---|---|---|---|---|---|
| 1. | 94-75-7 | 2,4-D | 56 | U | |
| 2. | 94-82-6 | 2,4-DB | 56 | U | |
| 3. | 93-76-5 | 2,4,5-T | 56 | U | |
| 4. | 1918-00-9 | Dicamba | 56 | U | |
| 5. | 93-72-1 | 2,4,5-TP (Silvex) | 56 | U | |

| | SURROGATE STANDARD | RECOVERY (%) | ACCEPTABLE | SPIKE (µg/kg) |
|---|---|---|---|---|
| 6. | Triclopyr | 72 | 50-160 | 113 |

U: Below Reporting Limit

U.S. ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, Texas 75235
214/905-9130

Report Date: 19 August 1997

District: Tulsa
Project: Laredo - SFL
Date Sampled: 29 June 1997
Date Received: 30 June 1997
Field Number: DR-SD1QA
SWD Number: S70315-39
Batch Number: 767

Sample Matrix: Soil
Analyst: BJ
Extraction Method: 3540B
Extraction Date: 7 July 1997
Analysis Method: 8081
Analysis Date: 7,8 & 12 August 1997

| Analyte | MDL, µg/kg | LRL, µg/kg | Result, µg/kg | Col. 1/Col. 2 RPD, % |
|---|---|---|---|---|
| Aldrin | 2 | 10 | < 2 | na |
| α-BHC | 2 | 10 | < 2 | na |
| β-BHC | 2 | 10 | < 2 | na |
| γ-BHC | 2 | 10 | < 2 | na |
| δ-BHC | 2 | 10 | < 2 | na |
| α-Chlordane | 1 | 10 | 250 | na* |
| γ-Chlordane | 1 | 10 | 250 | 4 |
| 4,4'-DDD | 2 | 10 | 37 | 38 |
| 4,4'-DDE | 2 | 10 | 91 | na* |
| 4,4'-DDT | 5 | 20 | 62 | 10 |
| Dieldrin | 2 | 10 | 130 | na* |
| Endosulfan I | 1 | 10 | < 1 | na |
| Endosulfan II | 2 | 10 | < 2 | na |
| Endosulfan Sulfate | 7 | 20 | < 7 | na |
| Endrin | 2 | 10 | < 2 | na |
| Endrin Aldehyde | 2 | 10 | < 2 | na |
| Endrin Ketone | 2 | 10 | < 2 | na |
| Heptachlor | 2 | 10 | < 2 | na |
| Heptachlor Epoxide | 2 | 10 | < 2 | na |
| Methoxychlor | 5 | 20 | < 5 | na |
| Chlordane | 8 | 50 | 2100 | 1 |
| Toxaphene | 20 | 100 | < 20 | na |
| Aroclor 1016 | 20 | 100 | < 20 | na |
| Aroclor 1221 | 20 | 100 | < 20 | na |
| Aroclor 1232 | 20 | 100 | < 20 | na |
| Aroclor 1242 | 20 | 100 | < 20 | na |
| Aroclor 1248 | 20 | 100 | < 20 | na |
| Aroclor 1254 | 20 | 100 | < 20 | na |
| Aroclor 1260 | 20 | 100 | < 20 | na |
| TCMX (surrogate) | na | na | 69 | na |
| DCB (surrogate) | na | na | 76 | na |

*NOTE: Col. 1/Col. 2 RPD not available for α-chlordane due to co-elution with endosulfan I on Col. 1; not available for DDE and dieldrin due to co-elution with each other on Col. 2.

04145

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

**Project:** Former Webb AFB
**Field ID:** DR-SD1 QA
**Date Sampled :** 29 June 1997
**Date analysed:** 11 July 1997
**Method No:** 8260A
**Analyst:** JSN
**Dilution Factor:** 1

**Date Reported :** 29 July 1997
**Site :** Landfill
**Date received:** 30 June 1997
**SWD Lab No.:** S70315-39
**QC Batch No :** 970711S1
**Sample Matrix:** Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Acetone | 30 | 100 | < 30 |
| Benzene | 1 | 5 | < 1.0 |
| Bromobenzene | 1 | 5 | < 1.0 |
| Bromochloromethane | 2 | 10 | < 2.0 |
| Bromodichloromethane | 1 | 5 | < 1.0 |
| Bromoform | 1 | 5 | < 1.0 |
| Bromomethane | 2 | 10 | < 2.0 |
| 2-Butanone | 30 | 100 | < 30 |
| n-Butylbenzene | 1 | 5 | < 1.0 |
| sec- Butylbenzene | 1 | 5 | < 1.0 |
| tert-Butylbenzene | 1 | 5 | < 1.0 |
| Carbon tetrachloride | 1 | 5 | < 1.0 |
| Chlorobenzene | 1 | 5 | < 1.0 |
| Chloroethane | 3 | 10 | < 3.0 |
| Chloroform | 1 | 5 | < 1.0 |
| Chloromethane | 3 | 10 | < 3.0 |
| 2-Chlorotoluene | 1 | 5 | < 1.0 |
| 4-Chlorotoluene | 1 | 5 | < 1.0 |
| Dibromochloromethane | 1 | 5 | < 1.0 |
| 1,2-Dibromo-3-chloropropane | 6 | 25 | < 6.0 |
| 1,2-Dibromoethane | 1 | 5 | < 1.0 |
| Dibromomethane | 1 | 5 | < 1.0 |
| 1,2-Dichlorobenzene | 1 | 5 | < 1.0 |
| 1,3-Dichlorobenzene | 1 | 5 | < 1.0 |
| 1,4-Dichlorobenzene | 1 | 5 | < 1.0 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB
Field ID: DR-SD1 QA
Date Sampled : 29 June 1997
Date analysed: 11 July 1997
Method No: 8260A
Analyst: JSN
Dilution Factor: 1

Date Reported : 29 July 1997
Site : Landfill
Date received: 30 June 1997
SWD Lab No.: S70315-39
QC Batch No : 970711S1
Sample Matrix: Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Dichlorodifluoromethane | 2 | 10 | < 2.0 |
| 1,1-Dichloroethane | 1 | 5 | < 1.0 |
| 1,2-Dichloroethane | 1 | 5 | < 1.0 |
| 1,1-Dichloroethene | 1 | 5 | < 1.0 |
| cis-1,2-Dichloroethene | 1 | 5 | < 1.0 |
| trans-1,2-Dichloroethene | 2 | 10 | < 2.0 |
| 1,2-Dichloropropane | 1 | 5 | < 1.0 |
| 1,3-Dichloropropane | 1 | 5 | < 1.0 |
| 2,2-Dichloropropane | 1 | 5 | < 1.0 |
| 1,1-Dichloropropene | 2 | 10 | < 2.0 |
| Ethylbenzene | 1 | 5 | < 1.0 |
| 2-Hexanone | 30 | 100 | < 30 |
| Hexachlorobutadiene | 1 | 5 | < 1.0 |
| Isopropylbenzene | 1 | 5 | < 1.0 |
| p-Isopropyltoluene | 1 | 5 | < 1.0 |
| 4-Methyl-2-pentanone | 30 | 100 | < 30 |
| Methylene chloride | 2 | 10 | < 2.0 |
| Naphthalene | 1 | 5 | < 1.0 |
| n-Propylbenzene | 1 | 5 | < 1.0 |
| Styrene | 1 | 5 | < 1.0 |
| 1,1,1,2-Tetrachloroethane | 1 | 5 | < 1.0 |
| 1,1,2,2-Tetrachloroethane | 2 | 10 | < 2.0 |
| Tetrachloroethene | 1 | 5 | < 1.0 |
| Toluene | 2 | 10 | < 2.0 |
| 1,2,3-Trichlorobenzene | 1 | 5 | < 1.0 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

**Project:** Former Webb AFB
**Field ID:** DR-SD1 QA
**Date Sampled :** 29 June 1997
**Date analysed:** 11 July 1997
**Method No:** 8260A
**Analyst:** JSN
**Dilution Factor:** 1

**Date Reported :** 29 July 1997
**Site :** Landfill
**Date received:** 30 June 1997
**SWD Lab No.:** S70315-39
**QC Batch No :** 970711S1
**Sample Matrix:** Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| 1,2,4-Trichlorobenzene | 1 | 5 | < 1.0 |
| 1,1,1-Trichloroethane | 1 | 5 | < 1.0 |
| 1,1,2-Trichloroethane | 1 | 5 | < 1.0 |
| Trichloroethene | 1 | 5 | < 1.0 |
| Trichlorofluoromethane | 1 | 10 | < 1.0 |
| 1,2,3-Trichloropropane | 2 | 10 | < 2.0 |
| 1,2,4-Trimethylbenzene | 1 | 5 | < 1.0 |
| 1,3,5-Trimethylbenzene | 1 | 5 | < 1.0 |
| Vinyl chloride | 2 | 10 | < 2.0 |
| o-Xylene | 1 | 5 | < 1.0 |
| m & p-Xylene | 1 | 10 | < 1.0 |
| **Surrogates** | | **Concentration of Surrogate (ug/Kg)** | **Amount Recovered** |
| Dibromofluoromethane | | 50 | 104 % |
| 1,2-Dichloroethane-d4 | | 50 | 104 % |
| Toluene-d8 | | 50 | 111 % |
| 4-Bromofluorobenzene | | 50 | 110 % |

04148

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S70315-39

Lab Name: US ARMY CORPS OF ENGINEERS SWD LAB Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) SOIL Lab Sample ID: 315-39

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 315-39.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 7/11/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/Kg

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

**District:** Tulsa
**Project:** Former Webb AFB Laredo TX
**Site:** Landfill
**Field ID:** DR-SD1-QA
**SWD Number:** S70315-39
**Analysis Method:** 8270B
**QC Batch No :** 970702S33

**Date Sampled** : 29 June 1997
**Date Received** : 30 June 1997
**Date Extracted** : 02 July 1997
**Date Analyzed** : 18 July 1997
**Date Reported** : 23 July 1997
**Sample Matrix** : Soil
**Dilution Factor:** 6.0*
**Analyst** : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Phenol | 200 | 1980 | < 200 |
| bis(2-Chloroethyl)ether | 400 | 1980 | < 400 |
| 2-Chlorophenol | 400 | 1980 | < 400 |
| 1,3-Dichlorobenzene | 400 | 1980 | < 400 |
| 1,4-Dichlorobenzene | 300 | 1980 | < 300 |
| 1,2-Dichlorobenzene | 200 | 1980 | < 200 |
| 2-Methyl phenol | 400 | 1980 | < 400 |
| bis(2-Chloroisopropyl)ether | 400 | 1980 | < 400 |
| 4-Methyl phenol | 400 | 1980 | < 400 |
| n-Nitroso-di-n-propyl amine | 400 | 1980 | < 400 |
| Hexachloroethane | 400 | 1980 | < 400 |
| Nitrobenzene | 1000 | 3960 | < 1000 |
| Isophorone | 1000 | 3960 | < 1000 |
| 2-Nitrophenol | 1000 | 3960 | < 1000 |
| 2,4-Dimethylphenol | 300 | 1980 | < 300 |
| bis(2-Chloroethoxy)methane | 500 | 1980 | < 500 |
| 2,4-Dichlorophenol | 1000 | 3960 | < 1000 |
| 1,2,4-Trichlorobenzene | 1000 | 3960 | < 1000 |
| Naphthalene | 1000 | 3960 | < 1000 |
| 4-Chloroaniline | 600 | 1980 | < 600 |
| Hexachlorobutadiene | 1000 | 3960 | < 1000 |
| 4-Chloro-3-methylphenol | 1000 | 3960 | < 1000 |
| 2-Methylnaphthalene | 600 | 1980 | < 600 |
| Hexachlorocyclopentadiene | 400 | 1980 | < 400 |
| 2,4,6-Trichlorophenol | 500 | 1980 | < 500 |
| 2,4,5-Trichlorophenol | 600 | 1980 | < 600 |
| 2-Chloronaphthalene | 500 | 1980 | < 500 |
| 2-Nitroaniline | 500 | 1980 | < 500 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

**District:** Tulsa
**Project:** Former Webb AFB Laredo TX
**Site:** Landfill
**Field ID:** DR-SD1-QA
**SWD Number:** S70315-39
**Analysis Method:** 8270B
**QC Batch No :** 970702S33

**Date Sampled** : 29 June 1997
**Date Received** : 30 June 1997
**Date Extracted** : 02 July 1997
**Date Analyzed** : 18 July 1997
**Date Reported** : 23 July 1997
**Sample Matrix** : Soil
**Dilution Factor**: 6.0*
**Analyst** : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Acenaphthalene | 400 | 1980 | < 400 |
| Dimethylphthalate | 400 | 1980 | < 400 |
| 2,6-Dinitrotoluene | 600 | 1980 | < 600 |
| 3-Nitroaniline | 400 | 1980 | < 400 |
| Acenaphthene | 400 | 1980 | < 400 |
| 2,4-Dinitrophenol | 3000 | 9000 | < 3000 |
| 4-Nitrophenol | 1000 | 3960 | < 1000 |
| Dibenzofuran | 400 | 1980 | < 400 |
| 2,4-Dinitrotoluene | 600 | 1980 | < 600 |
| Fluorene | 300 | 1980 | < 300 |
| 4-Chlorophenyl-phenylether | 400 | 1980 | < 400 |
| Diethylphthalate | 400 | 1980 | < 400 |
| 4-Nitroaniline | 400 | 1980 | < 400 |
| 4,6-Dinitro-2-methylphenol | 1000 | 3960 | < 1000 |
| n-Nitrosodiphenylamine | 300 | 1980 | < 300 |
| 4-Bromophenyl-phenylether | 400 | 1980 | < 400 |
| Hexachlorobenzene | 500 | 1980 | < 500 |
| Pentachlorophenol | 500 | 1980 | < 500 |
| Phenanthrene | 400 | 1980 | < 400 |
| Anthracene | 400 | 1980 | < 400 |
| Di-n-butylphthalate | 2000 | 7200 | < 2000 |
| Fluoranthene | 400 | 1980 | < 400 |
| Pyrene | 1000 | 3960 | < 1000 |
| Butylbenzylphthalate | 500 | 1980 | < 500 |
| Chrysene | 400 | 1980 | < 400 |
| Benzo(a)anthracene | 400 | 1980 | < 400 |
| 3,3'-Dichlorobenzidine | 400 | 1980 | < 400 |
| bis(2-ethylhexyl)phthalate | 1000 | 3960 | < 1000 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

**District:** Tulsa
**Project:** Former Webb AFB Laredo TX
**Site:** Landfill
**Field ID:** DR-SD1-QA
**SWD Number:** S70315-39
**Analysis Method:** 8270B
**QC Batch No :** 970702S33

**Date Sampled** : 29 June 1997
**Date Received** : 30 June 1997
**Date Extracted** : 02 July 1997
**Date Analyzed** : 18 July 1997
**Date Reported** : 23 July 1997
**Sample Matrix** : Soil
**Dilution Factor:** 6.0*
**Analyst** : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Di-n-octylphthalate | 400 | 1980 | < 400 |
| Benzo(b)fluoranthene | 300 | 1980 | < 300 |
| Benzo(k)fluoranthene | 400 | 1980 | < 400 |
| Benzo(a)pyrene | 400 | 1980 | < 400 |
| Indeno(1,2,3-cd)pyrene | 400 | 1980 | < 400 |
| Dibenz(a,h)anthrancene | 400 | 1980 | < 400 |
| Benzo(g,h,i)perylene | 400 | 1980 | < 400 |
| **Surrogates** | **Concentration of Surrogate (ug/Kg)** | **Acceptance Range** | **% Recovered** |
| 2-Fluorophenol | 200 | 25 - 121 | 51 % |
| Phenol-d6 | 200 | 24 - 113 | 52 % |
| Nitrobenzene-d5 | 100 | 47 - 119 | 53 % |
| 2-Fluorobiphenyl | 100 | 54 - 107 | 59 % |
| 2,4,6-Tribromophenol | 200 | 27 - 122 | 79 % |
| Terphenyl-d14 | 100 | 45 - 125 | 82 % |

SDL - Sample Detection Limit SRL - Sample Reporting Limit
* Due to the nature of the sample, a dilution factor of six was needed.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

315-39

Lab Name: SWD Lab Contract: 0000

Lab Code: 0000 Case No.: 0000 SAS No.: 0000 SDG No.: 0000

Matrix: (soil/water) SOIL Lab Sample ID: 315-39 97070

Sample wt/vol: 5 (g/ml) G Lab File ID: 315-39.D

Level: (low/med) LOW Date Received: 06/30/97

% Moisture: 27 decanted: (Y/N) N Date Analyzed: 07/18/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 6.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-38
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-40 DR-SD2
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 65.2 % |

Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB
QC Batch No : 154020H

Applicable results are reported on Dry Weight basis.

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Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

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ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-40 DR-SD2
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.77 mg/Kg | < 0.77 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Aluminum | /1 | 15.3 mg/Kg | 6660 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Arsenic | /1 | 0.614 mg/Kg | 2.20 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 8-JUL-1997 by AH<br>QC Batch No : 17705F | | | |
| Barium | /1 | 1.53 mg/Kg | 84.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Beryllium | /1 | 0.46 mg/Kg | < 0.46 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |



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REPORT NUMBER : D97-8054-38 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 76.7 mg/Kg | 14300 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Cadmium | /1 | 0.77 mg/Kg | < 0.77 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Cobalt | /1 | 1.53 mg/Kg | 3.23 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Chromium | /1 | 0.77 mg/Kg | 5.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Copper | /1 | 1.53 mg/Kg | 6.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Iron | /1 | 15.3 mg/Kg | 7190 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Mercury | /1 | 0.184 mg/Kg | < 0.184 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-38 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 153 mg/Kg | 1650 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Magnesium | /1 | 153 mg/Kg | 1950 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Manganese | /1 | 1.53 mg/Kg | 175 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Sodium | /1 | 153 mg/Kg | 505 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Nickel | /1 | 1.53 mg/Kg | 5.10 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Lead | /1 | 0.767 mg/Kg | 7.62 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Antimony | /1 | 7.67 mg/Kg | < 7.67 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |

04157

REPORT NUMBER : D97-8054-38 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.53 mg/Kg | < 1.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17705F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.50 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Thallium | /1 | 1.5 mg/Kg | < 1.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Vanadium | /1 | 1.53 mg/Kg | 12.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Zinc | /1 | 3.07 mg/Kg | 34.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-38
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-40 DR-SD2
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 2
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2,4-D | 153 | µg/Kg | < | 153 | µg/Kg |
| 2,4-DB | 153 | µg/Kg | < | 153 | µg/Kg |
| 2,4,5-T | 15.3 | µg/Kg | < | 15.3 | µg/Kg |
| 2,4,5-TP(Silvex) | 15.3 | µg/Kg | < | 15.3 | µg/Kg |
| Dalapon | 613 | µg/Kg | < | 613 | µg/Kg |
| Dicamba | 15.3 | µg/Kg | < | 15.3 | µg/Kg |
| Dichlorprop | 153 | µg/Kg | < | 153 | µg/Kg |
| Dinoseb | 61.3 | µg/Kg | < | 61.3 | µg/Kg |
| MCPA | 61300 | µg/Kg | < | 61300 | µg/Kg |
| MCPP | 61300 | µg/Kg | < | 61300 | µg/Kg |



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REPORT NUMBER : D97-8054-38
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 67.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-38
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-40 DR-SD2
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1300
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 8.22 µg/Kg | < 8.22 µg/Kg |
| Alpha-BHC | 6.17 µg/Kg | < 6.17 µg/Kg |
| Beta-BHC | 12.3 µg/Kg | < 12.3 µg/Kg |
| Delta-BHC | 18.5 µg/Kg | < 18.5 µg/Kg |
| Gamma-BHC(Lindane) | 8.22 µg/Kg | < 8.22 µg/Kg |
| Chlordane | 28.8 µg/Kg | 170 µg/Kg |
| 4,4'-DDD | 22.6 µg/Kg | < 22.6 µg/Kg |
| 4,4'-DDE | 8.22 µg/Kg | < 8.22 µg/Kg |
| 4,4'-DDT | 24.7 µg/Kg | < 24.7 µg/Kg |
| Dieldrin | 4.11 µg/Kg | < 4.11 µg/Kg |
| Endosulfan I | 28.8 µg/Kg | < 28.8 µg/Kg |
| Endosulfan II | 8.22 µg/Kg | < 8.22 µg/Kg |
| Endosulfan Sulfate | 136 µg/Kg | < 136 µg/Kg |
| Endrin | 12.3 µg/Kg | < 12.3 µg/Kg |

REPORT NUMBER : D97-8054-38
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 47.3 µg/Kg | < 47.3 µg/Kg |
| Heptachlor | 6.17 µg/Kg | < 6.17 µg/Kg |
| Heptachlor Epoxide | 171 µg/Kg | < 171 µg/Kg |
| Methoxychlor | 362 µg/Kg | < 362 µg/Kg |
| Toxaphene | 493 µg/Kg | < 493 µg/Kg |
| Aroclor-1016 | 134 µg/Kg | < 134 µg/Kg |
| Aroclor-1221 | 134 µg/Kg | < 134 µg/Kg |
| Aroclor-1232 | 134 µg/Kg | < 134 µg/Kg |
| Aroclor-1242 | 134 µg/Kg | < 134 µg/Kg |
| Aroclor-1248 | 134 µg/Kg | < 134 µg/Kg |
| Aroclor-1254 | 134 µg/Kg | < 134 µg/Kg |
| Aroclor-1260 | 134 µg/Kg | < 134 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 76.8 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 60.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-40 DR-SD2
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707082001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 30.7 µg/Kg | < 30.7 µg/Kg |
| Acrylonitrile | 7.67 µg/Kg | < 7.67 µg/Kg |
| Benzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| Bromobenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| Bromochloromethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| Bromodichloromethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| Bromoform | 7.67 µg/Kg | < 7.67 µg/Kg |
| Carbon disulfide | 7.67 µg/Kg | < 7.67 µg/Kg |
| Carbon tetrachloride | 7.67 µg/Kg | < 7.67 µg/Kg |
| Chlorobenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| Chloroethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| Chloroform | 7.67 µg/Kg | < 7.67 µg/Kg |
| 2-Chlorotoluene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 4-Chlorotoluene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 2-Chloroethylvinyl ether | 15.3 µg/Kg | < 15.3 µg/Kg |
| Dibromochloromethane | 7.67 µg/Kg | < 7.67 µg/Kg |

REPORT NUMBER : D97-8054-38
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 38.3 µg/Kg | < 38.3 µg/Kg |
| 1,2-Dibromoethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,2-Dichlorobenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,3-Dichlorobenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,4-Dichlorobenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| trans-1,4-Dichloro-2-butene | 153 µg/Kg | < 153 µg/Kg |
| 1,1-Dichloroethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,2-Dichloroethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,1-Dichloroethene | 7.67 µg/Kg | < 7.67 µg/Kg |
| cis-1,2-Dichloroethene | 7.67 µg/Kg | < 7.67 µg/Kg |
| trans-1,2-Dichloroethene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,2-Dichloropropane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 2,2-Dichloropropane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,1-Dichloropropene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,3-Dichloropropane | 7.67 µg/Kg | < 7.67 µg/Kg |
| cis-1,3-Dichloropropene | 7.67 µg/Kg | < 7.67 µg/Kg |
| trans-1,3-Dichloropropene | 7.67 µg/Kg | < 7.67 µg/Kg |
| Ethylbenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 2-Hexanone | 76.7 µg/Kg | < 76.7 µg/Kg |
| Bromomethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| Chloromethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| Dibromomethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 2-Butanone | 153 µg/Kg | < 153 µg/Kg |
| Iodomethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| Methylene chloride | 7.67 µg/Kg | < 7.67 µg/Kg |
| 4-Methyl-2-pentanone | 153 µg/Kg | < 153 µg/Kg |

REPORT NUMBER : D97-8054-38
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| Tetrachloroethene | 7.67 µg/Kg | < 7.67 µg/Kg |
| Toluene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,2,3-Trichlorobenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,2,4-Trichlorobenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,1,1-Trichloroethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,1,2-Trichloroethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| Trichloroethene | 7.67 µg/Kg | < 7.67 µg/Kg |
| Trichlorofluoromethane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,2,3-Trichloropropane | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,3,5-Trimethylbenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| 1,2,4-Trimethylbenzene | 7.67 µg/Kg | < 7.67 µg/Kg |
| Vinyl acetate | 76.7 µg/Kg | < 76.7 µg/Kg |
| Vinyl chloride | 3.07 µg/Kg | < 3.07 µg/Kg |
| m,p-Xylene | 7.67 µg/Kg | < 7.67 µg/Kg |
| o-Xylene | 7.67 µg/Kg | < 7.67 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 101 % |
| Toluene-d8 (SS) | | 110 % |
| Bromofluorobenzene (SS) | | 97.4 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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REPORT NUMBER : D97-8054-38
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-40 DR-SD2
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707082001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 15 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-40 DR-SD2
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Acenaphthylene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Anthracene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Benzo(a)anthracene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Benzo(b)fluoranthene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Benzo(k)fluoranthene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Benzo(g,h,i)perylene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Benzo(a)pyrene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Benzyl alcohol | 0.997 mg/Kg | < 0.997 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.506 mg/Kg | < 0.506 mg/Kg |
| Bis(2-chloroethyl)ether | 0.506 mg/Kg | < 0.506 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.506 mg/Kg | < 0.506 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.506 mg/Kg | < 0.506 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.506 mg/Kg | < 0.506 mg/Kg |



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REPORT NUMBER : D97-8054-38
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.506 mg/Kg | < 0.506 mg/Kg |
| Carbazole | 0.506 mg/Kg | < 0.506 mg/Kg |
| 4-Chloroaniline | 0.506 mg/Kg | < 0.506 mg/Kg |
| 2-Chloronaphthalene | 0.506 mg/Kg | < 0.506 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.506 mg/Kg | < 0.506 mg/Kg |
| Chrysene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Dibenz(a,h)anthracene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Dibenzofuran | 0.506 mg/Kg | < 0.506 mg/Kg |
| Di-n-butylphthalate | 0.506 mg/Kg | < 0.506 mg/Kg |
| 1,2-Dichlorobenzene | 0.506 mg/Kg | < 0.506 mg/Kg |
| 1,3-Dichlorobenzene | 0.506 mg/Kg | < 0.506 mg/Kg |
| 1,4-Dichlorobenzene | 0.506 mg/Kg | < 0.506 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.506 mg/Kg | < 0.506 mg/Kg |
| Diethyl phthalate | 0.506 mg/Kg | < 0.506 mg/Kg |
| Dimethyl phthalate | 0.506 mg/Kg | < 0.506 mg/Kg |
| 2,4-Dinitrotoluene | 0.506 mg/Kg | < 0.506 mg/Kg |
| 2,6-Dinitrotoluene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Di-n-octylphthalate | 0.506 mg/Kg | < 0.506 mg/Kg |
| Fluoranthene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Fluorene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Hexachlorobenzene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Hexachlorobutadiene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Hexachlorocyclopentadiene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Hexachloroethane | 0.506 mg/Kg | < 0.506 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Isophorone | 0.506 mg/Kg | < 0.506 mg/Kg |

REPORT NUMBER : D97-8054-38
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Naphthalene | 0.506 mg/Kg | < 0.506 mg/Kg |
| 2-Nitroaniline | 2.53 mg/Kg | < 2.53 mg/Kg |
| 3-Nitroaniline | 2.53 mg/Kg | < 2.53 mg/Kg |
| 4-Nitroaniline | 2.53 mg/Kg | < 2.53 mg/Kg |
| Nitrobenzene | 0.506 mg/Kg | < 0.506 mg/Kg |
| N-Nitrosodiphenylamine | 0.506 mg/Kg | < 0.506 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.506 mg/Kg | < 0.506 mg/Kg |
| Phenanthrene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Pyrene | 0.506 mg/Kg | < 0.506 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.506 mg/Kg | < 0.506 mg/Kg |
| Benzoic acid | 1.23 mg/Kg | < 1.23 mg/Kg |
| 4-Chloro-3-methylphenol | 0.997 mg/Kg | < 0.997 mg/Kg |
| 2-Chlorophenol | 0.506 mg/Kg | < 0.506 mg/Kg |
| 2,4-Dichlorophenol | 0.506 mg/Kg | < 0.506 mg/Kg |
| 2,4-Dimethylphenol | 0.506 mg/Kg | < 0.506 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.53 mg/Kg | < 2.53 mg/Kg |
| 2,4-Dinitrophenol | 2.53 mg/Kg | < 2.53 mg/Kg |
| 2-Methylphenol | 0.506 mg/Kg | < 0.506 mg/Kg |
| 4-Methylphenol | 0.506 mg/Kg | < 0.506 mg/Kg |
| 2-Nitrophenol | 0.506 mg/Kg | < 0.506 mg/Kg |
| 4-Nitrophenol | 1.23 mg/Kg | < 1.23 mg/Kg |
| Pentachlorophenol | 2.53 mg/Kg | < 2.53 mg/Kg |
| Phenol | 0.506 mg/Kg | < 0.506 mg/Kg |
| 2,4,5-Trichlorophenol | 2.53 mg/Kg | < 2.53 mg/Kg |
| 2,4,6-Trichlorophenol | 0.506 mg/Kg | < 0.506 mg/Kg |



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REPORT NUMBER : D97-8054-38
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 63.7 % |
| 2-Fluorobiphenyl (SS) | | 65.8 % |
| Terphenyl-d14 (SS) | | 80.8 % |
| Phenol-d6 (SS) | | 72.1 % |
| 2-Fluorophenol (SS) | | 62.4 % |
| 2,4,6-Tribromophenol (SS) | | 66.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-38
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-40 DR-SD2
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Sulfur, mol. (S8) | 17.13 | ABN | 3.7 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-39
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-41 DR-SD3
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 73.0 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154020H | | | |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-39
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-41 DR-SD3
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.68 mg/Kg | < 0.68 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Aluminum | /1 | 13.7 mg/Kg | 8230 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Arsenic | /1 | 0.548 mg/Kg | 3.06 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 8-JUL-1997 by AH<br>QC Batch No : 17705F | | | |
| Barium | /1 | 1.37 mg/Kg | 86.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Beryllium | /1 | 0.41 mg/Kg | 0.46 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |



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REPORT NUMBER : D97-8054-39 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 68.5 mg/Kg | 20200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Cadmium | /1 | 0.68 mg/Kg | < 0.68 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Cobalt | /1 | 1.37 mg/Kg | 3.27 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Chromium | /1 | 0.68 mg/Kg | 6.31 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Copper | /1 | 1.37 mg/Kg | 6.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Iron | /1 | 13.7 mg/Kg | 7770 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Mercury | /1 | 0.164 mg/Kg | < 0.164 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-39 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 137 mg/Kg | 1990 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Magnesium | /1 | 137 mg/Kg | 2520 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Manganese | /1 | 1.37 mg/Kg | 121 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Sodium | /1 | 137 mg/Kg | 727 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Nickel | /1 | 1.37 mg/Kg | 5.91 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Lead | /1 | 0.685 mg/Kg | 7.74 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Antimony | /1 | 6.85 mg/Kg | < 6.85 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |



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REPORT NUMBER : D97-8054-39 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.37 mg/Kg | < 1.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17705F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Thallium | /1 | 1.4 mg/Kg | < 1.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Vanadium | /1 | 1.37 mg/Kg | 14.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Zinc | /1 | 2.74 mg/Kg | 30.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-39
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-41 DR-SD3
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 2
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2,4-D | 137 | µg/Kg | < | 137 | µg/Kg |
| 2,4-DB | 137 | µg/Kg | < | 137 | µg/Kg |
| 2,4,5-T | 13.7 | µg/Kg | < | 13.7 | µg/Kg |
| 2,4,5-TP(Silvex) | 13.7 | µg/Kg | < | 13.7 | µg/Kg |
| Dalapon | 548 | µg/Kg | < | 548 | µg/Kg |
| Dicamba | 13.7 | µg/Kg | < | 13.7 | µg/Kg |
| Dichlorprop | 137 | µg/Kg | < | 137 | µg/Kg |
| Dinoseb | 54.8 | µg/Kg | < | 54.8 | µg/Kg |
| MCPA | 54800 | µg/Kg | < | 54800 | µg/Kg |
| MCPP | 54800 | µg/Kg | < | 54800 | µg/Kg |



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REPORT NUMBER : D97-8054-39
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 65.7 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-39
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-41 DR-SD3
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 2
METHOD FACTOR : 1300
QC BATCH NO : AC141-42

| CHLORINATED PESTICIDES AND PCBS | | | |
|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Aldrin | 14.7 µg/Kg | < | 14.7 µg/Kg |
| Alpha-BHC | 11.0 µg/Kg | < | 11.0 µg/Kg |
| Beta-BHC | 22.0 µg/Kg | < | 22.0 µg/Kg |
| Delta-BHC | 33.0 µg/Kg | < | 33.0 µg/Kg |
| Gamma-BHC(Lindane) | 14.7 µg/Kg | < | 14.7 µg/Kg |
| Chlordane | 51.4 µg/Kg | | 81.2 µg/Kg |
| 4,4'-DDD | 40.4 µg/Kg | < | 40.4 µg/Kg |
| 4,4'-DDE | 14.7 µg/Kg | < | 14.7 µg/Kg |
| 4,4'-DDT | 44.1 µg/Kg | < | 44.1 µg/Kg |
| Dieldrin | 7.34 µg/Kg | < | 7.34 µg/Kg |
| Endosulfan I | 51.4 µg/Kg | < | 51.4 µg/Kg |
| Endosulfan II | 14.7 µg/Kg | < | 14.7 µg/Kg |
| Endosulfan Sulfate | 242 µg/Kg | < | 242 µg/Kg |
| Endrin | 22.0 µg/Kg | < | 22.0 µg/Kg |



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REPORT NUMBER : D97-8054-39
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 84.4 µg/Kg | < 84.4 µg/Kg |
| Heptachlor | 11.0 µg/Kg | < 11.0 µg/Kg |
| Heptachlor Epoxide | 305 µg/Kg | < 305 µg/Kg |
| Methoxychlor | 646 µg/Kg | < 646 µg/Kg |
| Toxaphene | 881 µg/Kg | < 881 µg/Kg |
| Aroclor-1016 | 239 µg/Kg | < 239 µg/Kg |
| Aroclor-1221 | 239 µg/Kg | < 239 µg/Kg |
| Aroclor-1232 | 239 µg/Kg | < 239 µg/Kg |
| Aroclor-1242 | 239 µg/Kg | < 239 µg/Kg |
| Aroclor-1248 | 239 µg/Kg | < 239 µg/Kg |
| Aroclor-1254 | 239 µg/Kg | < 239 µg/Kg |
| Aroclor-1260 | 239 µg/Kg | < 239 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 74.2 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 64.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-39
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-41 DR-SD3
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707082001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 27.4 µg/Kg | < 27.4 µg/Kg |
| Acrylonitrile | 6.85 µg/Kg | < 6.85 µg/Kg |
| Benzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Bromobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Bromochloromethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Bromodichloromethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Bromoform | 6.85 µg/Kg | < 6.85 µg/Kg |
| Carbon disulfide | 6.85 µg/Kg | < 6.85 µg/Kg |
| Carbon tetrachloride | 6.85 µg/Kg | < 6.85 µg/Kg |
| Chlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Chloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Chloroform | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2-Chlorotoluene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 4-Chlorotoluene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2-Chloroethylvinyl ether | 13.7 µg/Kg | < 13.7 µg/Kg |
| Dibromochloromethane | 6.85 µg/Kg | < 6.85 µg/Kg |



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REPORT NUMBER : D97-8054-39
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 34.2 µg/Kg | < 34.2 µg/Kg |
| 1,2-Dibromoethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2-Dichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,3-Dichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,4-Dichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| trans-1,4-Dichloro-2-butene | 137 µg/Kg | < 137 µg/Kg |
| 1,1-Dichloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2-Dichloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1-Dichloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| cis-1,2-Dichloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| trans-1,2-Dichloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2-Dichloropropane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2,2-Dichloropropane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1-Dichloropropene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,3-Dichloropropane | 6.85 µg/Kg | < 6.85 µg/Kg |
| cis-1,3-Dichloropropene | 6.85 µg/Kg | < 6.85 µg/Kg |
| trans-1,3-Dichloropropene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Ethylbenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2-Hexanone | 68.5 µg/Kg | < 68.5 µg/Kg |
| Bromomethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Chloromethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Dibromomethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 2-Butanone | 137 µg/Kg | < 137 µg/Kg |
| Iodomethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Methylene chloride | 6.85 µg/Kg | < 6.85 µg/Kg |
| 4-Methyl-2-pentanone | 137 µg/Kg | < 137 µg/Kg |

REPORT NUMBER : D97-8054-39
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Tetrachloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Toluene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1,1-Trichloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,1,2-Trichloroethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| Trichloroethene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Trichlorofluoromethane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2,3-Trichloropropane | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.85 µg/Kg | < 6.85 µg/Kg |
| Vinyl acetate | 68.5 µg/Kg | < 68.5 µg/Kg |
| Vinyl chloride | 2.74 µg/Kg | < 2.74 µg/Kg |
| m,p-Xylene | 6.85 µg/Kg | < 6.85 µg/Kg |
| o-Xylene | 6.85 µg/Kg | < 6.85 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 103 % |
| Toluene-d8 (SS) | | 112 % |
| Bromofluorobenzene (SS) | | 101 % |

Applicable results are reported on Dry Weight basis.



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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-39
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-41 DR-SD3
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : RLR
ANALYZFD ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707082001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 14 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-39
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-41 DR-SD3
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 1-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 2
QC BATCH NO : AC141-41

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Acenaphthylene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Anthracene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Benzo(a)anthracene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Benzo(b)fluoranthene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Benzo(k)fluoranthene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Benzo(g,h,i)perylene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Benzo(a)pyrene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Benzyl alcohol | 1.78 mg/Kg | < 1.78 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.904 mg/Kg | < 0.904 mg/Kg |
| Bis(2-chloroethyl)ether | 0.904 mg/Kg | < 0.904 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.904 mg/Kg | < 0.904 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.904 mg/Kg | < 0.904 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.904 mg/Kg | < 0.904 mg/Kg |



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REPORT NUMBER : D97-8054-39
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.904 mg/Kg | < 0.904 mg/Kg |
| Carbazole | 0.904 mg/Kg | < 0.904 mg/Kg |
| 4-Chloroaniline | 0.904 mg/Kg | < 0.904 mg/Kg |
| 2-Chloronaphthalene | 0.904 mg/Kg | < 0.904 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.904 mg/Kg | < 0.904 mg/Kg |
| Chrysene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Dibenz(a,h)anthracene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Dibenzofuran | 0.904 mg/Kg | < 0.904 mg/Kg |
| Di-n-butylphthalate | 0.904 mg/Kg | < 0.904 mg/Kg |
| 1,2-Dichlorobenzene | 0.904 mg/Kg | < 0.904 mg/Kg |
| 1,3-Dichlorobenzene | 0.904 mg/Kg | < 0.904 mg/Kg |
| 1,4-Dichlorobenzene | 0.904 mg/Kg | < 0.904 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.904 mg/Kg | < 0.904 mg/Kg |
| Diethyl phthalate | 0.904 mg/Kg | < 0.904 mg/Kg |
| Dimethyl phthalate | 0.904 mg/Kg | < 0.904 mg/Kg |
| 2,4-Dinitrotoluene | 0.904 mg/Kg | < 0.904 mg/Kg |
| 2,6-Dinitrotoluene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Di-n-octylphthalate | 0.904 mg/Kg | < 0.904 mg/Kg |
| Fluoranthene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Fluorene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Hexachlorobenzene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Hexachlorobutadiene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Hexachlorocyclopentadiene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Hexachloroethane | 0.904 mg/Kg | < 0.904 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Isophorone | 0.904 mg/Kg | < 0.904 mg/Kg |

REPORT NUMBER : D97-8054-39
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Naphthalene | 0.904 mg/Kg | < 0.904 mg/Kg |
| 2-Nitroaniline | 4.52 mg/Kg | < 4.52 mg/Kg |
| 3-Nitroaniline | 4.52 mg/Kg | < 4.52 mg/Kg |
| 4-Nitroaniline | 4.52 mg/Kg | < 4.52 mg/Kg |
| Nitrobenzene | 0.904 mg/Kg | < 0.904 mg/Kg |
| N-Nitrosodiphenylamine | 0.904 mg/Kg | < 0.904 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.904 mg/Kg | < 0.904 mg/Kg |
| Phenanthrene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Pyrene | 0.904 mg/Kg | < 0.904 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.904 mg/Kg | < 0.904 mg/Kg |
| Benzoic acid | 2.19 mg/Kg | < 2.19 mg/Kg |
| 4-Chloro-3-methylphenol | 1.78 mg/Kg | < 1.78 mg/Kg |
| 2-Chlorophenol | 0.904 mg/Kg | < 0.904 mg/Kg |
| 2,4-Dichlorophenol | 0.904 mg/Kg | < 0.904 mg/Kg |
| 2,4-Dimethylphenol | 0.904 mg/Kg | < 0.904 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 4.52 mg/Kg | < 4.52 mg/Kg |
| 2,4-Dinitrophenol | 4.52 mg/Kg | < 4.52 mg/Kg |
| 2-Methylphenol | 0.904 mg/Kg | < 0.904 mg/Kg |
| 4-Methylphenol | 0.904 mg/Kg | < 0.904 mg/Kg |
| 2-Nitrophenol | 0.904 mg/Kg | < 0.904 mg/Kg |
| 4-Nitrophenol | 2.19 mg/Kg | < 2.19 mg/Kg |
| Pentachlorophenol | 4.52 mg/Kg | < 4.52 mg/Kg |
| Phenol | 0.904 mg/Kg | < 0.904 mg/Kg |
| 2,4,5-Trichlorophenol | 4.52 mg/Kg | < 4.52 mg/Kg |
| 2,4,6-Trichlorophenol | 0.904 mg/Kg | < 0.904 mg/Kg |



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REPORT NUMBER : D97-8054-39
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 68.2 % |
| 2-Fluorobiphenyl (SS) | | 69.7 % |
| Terphenyl-d14 (SS) | | 82.3 % |
| Phenol-d6 (SS) | | 71.8 % |
| 2-Fluorophenol (SS) | | 66.0 % |
| 2,4,6-Tribromophenol (SS) | | 82.9 % |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-39
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-41 DR-SD3
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-41

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Sulfur, mol. (S8) | 17.17 | ABN | 15 mg/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-40
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-42 DR-SD4
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

| MISCELLANEOUS ANALYSES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 69.3 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154020H | | |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-40
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-42 DR-SD4
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.72 mg/Kg | < 0.72 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Aluminum | /1 | 14.4 mg/Kg | 5490 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Arsenic | /1 | 0.577 mg/Kg | 2.74 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 7060 on 8-JUL-1997 by AH<br>QC Batch No : 17705F | | | |
| Barium | /1 | 1.44 mg/Kg | 98.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Beryllium | /1 | 0.43 mg/Kg | < 0.43 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |



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REPORT NUMBER : D97-8054-40 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 72.2 mg/Kg | 31500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Cadmium | /1 | 0.72 mg/Kg | < 0.72 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Cobalt | /1 | 1.44 mg/Kg | 2.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Chromium | /1 | 0.72 mg/Kg | 4.49 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Copper | /1 | 1.44 mg/Kg | 4.29 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Iron | /1 | 14.4 mg/Kg | 5790 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Mercury | /1 | 0.173 mg/Kg | < 0.173 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 1-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 2-JUL-1997 by CGJ<br>QC Batch No : HG-3941 | | | |

REPORT NUMBER : D97-8054-40 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 144 mg/Kg | 1280 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Magnesium | /1 | 144 mg/Kg | 1710 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Manganese | /1 | 1.44 mg/Kg | 130 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Sodium | /1 | 144 mg/Kg | 433 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Nickel | /1 | 1.44 mg/Kg | 4.14 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Lead | /1 | 0.722 mg/Kg | 6.44 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Antimony | /1 | 7.22 mg/Kg | < 7.22 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |



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REPORT NUMBER : D97-8054-40 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.44 mg/Kg | < 1.44 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 7740 on 7-JUL-1997 by AH<br>QC Batch No : 17705F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.17 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Thallium | /1 | 1.4 mg/Kg | < 1.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Vanadium | /1 | 1.44 mg/Kg | 12.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |
| Zinc | /1 | 2.89 mg/Kg | 26.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 3-JUL-1997 by A_O<br>Analyzed using EPA 6010A on 7-JUL-1997 by GAY<br>QC Batch No : 17706 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
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DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-40
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-42 DR-SD4
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 2
QC BATCH NO : AC142-78

| CHLORINATED HERBICIDES | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2,4-D | 144 | µg/Kg | < | 144 | µg/Kg |
| 2,4-DB | 144 | µg/Kg | < | 144 | µg/Kg |
| 2,4,5-T | 14.4 | µg/Kg | < | 14.4 | µg/Kg |
| 2,4,5-TP(Silvex) | 14.4 | µg/Kg | < | 14.4 | µg/Kg |
| Dalapon | 577 | µg/Kg | < | 577 | µg/Kg |
| Dicamba | 14.4 | µg/Kg | < | 14.4 | µg/Kg |
| Dichlorprop | 144 | µg/Kg | < | 144 | µg/Kg |
| Dinoseb | 57.7 | µg/Kg | < | 57.7 | µg/Kg |
| MCPA | 57700 | µg/Kg | < | 57700 | µg/Kg |
| MCPP | 57700 | µg/Kg | < | 57700 | µg/Kg |



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REPORT NUMBER : D97-8054-40
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 74.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-40
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-42 DR-SD4
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 10-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 4000
QC BATCH NO : AC141-60

| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Aldrin | 23.2 | µg/Kg | < | 23.2 | µg/Kg |
| Alpha-BHC | 17.4 | µg/Kg | < | 17.4 | µg/Kg |
| Beta-BHC | 34.8 | µg/Kg | < | 34.8 | µg/Kg |
| Delta-BHC | 52.2 | µg/Kg | < | 52.2 | µg/Kg |
| Gamma-BHC(Lindane) | 23.2 | µg/Kg | < | 23.2 | µg/Kg |
| Chlordane | 81.2 | µg/Kg | < | 81.2 | µg/Kg |
| 4,4'-DDD | 63.8 | µg/Kg | < | 63.8 | µg/Kg |
| 4,4'-DDE | 23.2 | µg/Kg | < | 23.2 | µg/Kg |
| 4,4'-DDT | 69.6 | µg/Kg | < | 69.6 | µg/Kg |
| Dieldrin | 11.6 | µg/Kg | < | 11.6 | µg/Kg |
| Endosulfan I | 81.2 | µg/Kg | < | 81.2 | µg/Kg |
| Endosulfan II | 23.2 | µg/Kg | < | 23.2 | µg/Kg |
| Endosulfan Sulfate | 383 | µg/Kg | < | 383 | µg/Kg |
| Endrin | 34.8 | µg/Kg | < | 34.8 | µg/Kg |



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REPORT NUMBER : D97-8054-40
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 133 | µg/Kg | < | 133 | µg/Kg |
| Heptachlor | 17.4 | µg/Kg | < | 17.4 | µg/Kg |
| Heptachlor Epoxide | 481 | µg/Kg | < | 481 | µg/Kg |
| Methoxychlor | 1020 | µg/Kg | < | 1020 | µg/Kg |
| Toxaphene | 1390 | µg/Kg | < | 1390 | µg/Kg |
| Aroclor-1016 | 377 | µg/Kg | < | 377 | µg/Kg |
| Aroclor-1221 | 377 | µg/Kg | < | 377 | µg/Kg |
| Aroclor-1232 | 377 | µg/Kg | < | 377 | µg/Kg |
| Aroclor-1242 | 377 | µg/Kg | < | 377 | µg/Kg |
| Aroclor-1248 | 377 | µg/Kg | < | 377 | µg/Kg |
| Aroclor-1254 | 377 | µg/Kg | < | 377 | µg/Kg |
| Aroclor-1260 | 377 | µg/Kg | < | 377 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 87.0 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 75.6 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-40
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-42 DR-SD4
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707081002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 28.9 µg/Kg | < 28.9 µg/Kg |
| Acrylonitrile | 7.22 µg/Kg | < 7.22 µg/Kg |
| Benzene | 7.22 µg/Kg | < 7.22 µg/Kg |
| Bromobenzene | 7.22 µg/Kg | < 7.22 µg/Kg |
| Bromochloromethane | 7.22 µg/Kg | < 7.22 µg/Kg |
| Bromodichloromethane | 7.22 µg/Kg | < 7.22 µg/Kg |
| Bromoform | 7.22 µg/Kg | < 7.22 µg/Kg |
| Carbon disulfide | 7.22 µg/Kg | < 7.22 µg/Kg |
| Carbon tetrachloride | 7.22 µg/Kg | < 7.22 µg/Kg |
| Chlorobenzene | 7.22 µg/Kg | < 7.22 µg/Kg |
| Chloroethane | 7.22 µg/Kg | < 7.22 µg/Kg |
| Chloroform | 7.22 µg/Kg | < 7.22 µg/Kg |
| 2-Chlorotoluene | 7.22 µg/Kg | < 7.22 µg/Kg |
| 4-Chlorotoluene | 7.22 µg/Kg | < 7.22 µg/Kg |
| 2-Chloroethylvinyl ether | 14.4 µg/Kg | < 14.4 µg/Kg |
| Dibromochloromethane | 7.22 µg/Kg | < 7.22 µg/Kg |



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REPORT NUMBER : D97-8054-40
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 1,2-Dibromo-3-chloropropane | 36.1 | µg/Kg | < | 36.1 | µg/Kg |
| 1,2-Dibromoethane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 1,2-Dichlorobenzene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 1,3-Dichlorobenzene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 1,4-Dichlorobenzene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| trans-1,4-Dichloro-2-butene | 144 | µg/Kg | < | 144 | µg/Kg |
| 1,1-Dichloroethane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 1,2-Dichloroethane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 1,1-Dichloroethene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| cis-1,2-Dichloroethene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| trans-1,2-Dichloroethene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 1,2-Dichloropropane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 2,2-Dichloropropane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 1,1-Dichloropropene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 1,3-Dichloropropane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| cis-1,3-Dichloropropene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| trans-1,3-Dichloropropene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| Ethylbenzene | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 2-Hexanone | 72.2 | µg/Kg | < | 72.2 | µg/Kg |
| Bromomethane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| Chloromethane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| Dibromomethane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 2-Butanone | 144 | µg/Kg | < | 144 | µg/Kg |
| Iodomethane | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| Methylene chloride | 7.22 | µg/Kg | < | 7.22 | µg/Kg |
| 4-Methyl-2-pentanone | 144 | µg/Kg | < | 144 | µg/Kg |

REPORT NUMBER : D97-8054-40
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 7.22 µg/Kg | < 7.22 µg/Kg |
| Tetrachloroethene | 7.22 µg/Kg | < 7.22 µg/Kg |
| Toluene | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,2,3-Trichlorobenzene | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,2,4-Trichlorobenzene | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,1,1-Trichloroethane | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,1,2-Trichloroethane | 7.22 µg/Kg | < 7.22 µg/Kg |
| Trichloroethene | 7.22 µg/Kg | < 7.22 µg/Kg |
| Trichlorofluoromethane | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,2,3-Trichloropropane | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,3,5-Trimethylbenzene | 7.22 µg/Kg | < 7.22 µg/Kg |
| 1,2,4-Trimethylbenzene | 7.22 µg/Kg | < 7.22 µg/Kg |
| Vinyl acetate | 72.2 µg/Kg | < 72.2 µg/Kg |
| Vinyl chloride | 2.89 µg/Kg | < 2.89 µg/Kg |
| m,p-Xylene | 7.22 µg/Kg | < 7.22 µg/Kg |
| o-Xylene | 7.22 µg/Kg | < 7.22 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 119 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 110 % |

Applicable results are reported on Dry Weight basis.



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Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-40
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-42 DR-SD4
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707081002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 14 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-40
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-42 DR-SD4
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 2-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC141-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Acenaphthylene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Anthracene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Benzo(a)anthracene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Benzo(b)fluoranthene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Benzo(k)fluoranthene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Benzo(g,h,i)perylene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Benzo(a)pyrene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Benzyl alcohol | 0.935 mg/Kg | < 0.935 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.475 mg/Kg | < 0.475 mg/Kg |
| Bis(2-chloroethyl)ether | 0.475 mg/Kg | < 0.475 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.475 mg/Kg | < 0.475 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.475 mg/Kg | < 0.475 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.475 mg/Kg | < 0.475 mg/Kg |



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REPORT NUMBER : D97-8054-40
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.475 mg/Kg | < 0.475 mg/Kg |
| Carbazole | 0.475 mg/Kg | < 0.475 mg/Kg |
| 4-Chloroaniline | 0.475 mg/Kg | < 0.475 mg/Kg |
| 2-Chloronaphthalene | 0.475 mg/Kg | < 0.475 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.475 mg/Kg | < 0.475 mg/Kg |
| Chrysene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Dibenz(a,h)anthracene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Dibenzofuran | 0.475 mg/Kg | < 0.475 mg/Kg |
| Di-n-butylphthalate | 0.475 mg/Kg | < 0.475 mg/Kg |
| 1,2-Dichlorobenzene | 0.475 mg/Kg | < 0.475 mg/Kg |
| 1,3-Dichlorobenzene | 0.475 mg/Kg | < 0.475 mg/Kg |
| 1,4-Dichiorobenzene | 0.475 mg/Kg | < 0.475 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.475 mg/Kg | < 0.475 mg/Kg |
| Diethyl phthalate | 0.475 mg/Kg | < 0.475 mg/Kg |
| Dimethyl phthalate | 0.475 mg/Kg | < 0.475 mg/Kg |
| 2,4-Dinitrotoluene | 0.475 mg/Kg | < 0.475 mg/Kg |
| 2,6-Dinitrotoluene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Di-n-octylphthalate | 0.475 mg/Kg | < 0.475 mg/Kg |
| Fluoranthene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Fluorene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Hexachlorobenzene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Hexachlorobutadiene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Hexachlorocyclopentadiene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Hexachloroethane | 0.475 mg/Kg | < 0.475 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Isophorone | 0.475 mg/Kg | < 0.475 mg/Kg |

REPORT NUMBER : D97-8054-40
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Naphthalene | 0.475 mg/Kg | < 0.475 mg/Kg |
| 2-Nitroaniline | 2.37 mg/Kg | < 2.37 mg/Kg |
| 3-Nitroaniline | 2.37 mg/Kg | < 2.37 mg/Kg |
| 4-Nitroaniline | 2.37 mg/Kg | < 2.37 mg/Kg |
| Nitrobenzene | 0.475 mg/Kg | < 0.475 mg/Kg |
| N-Nitrosodiphenylamine | 0.475 mg/Kg | < 0.475 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.475 mg/Kg | < 0.475 mg/Kg |
| Phenanthrene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Pyrene | 0.475 mg/Kg | < 0.475 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.475 mg/Kg | < 0.475 mg/Kg |
| Benzoic acid | 1.15 mg/Kg | < 1.15 mg/Kg |
| 4-Chloro-3-methylphenol | 0.935 mg/Kg | < 0.935 mg/Kg |
| 2-Chlorophenol | 0.475 mg/Kg | < 0.475 mg/Kg |
| 2,4-Dichlorophenol | 0.475 mg/Kg | < 0.475 mg/Kg |
| 2,4-Dimethylphenol | 0.475 mg/Kg | < 0.475 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.37 mg/Kg | < 2.37 mg/Kg |
| 2,4-Dinitrophenol | 2.37 mg/Kg | < 2.37 mg/Kg |
| 2-Methylphenol | 0.475 mg/Kg | < 0.475 mg/Kg |
| 4-Methylphenol | 0.475 mg/Kg | < 0.475 mg/Kg |
| 2-Nitrophenol | 0.475 mg/Kg | < 0.475 mg/Kg |
| 4-Nitrophenol | 1.15 mg/Kg | < 1.15 mg/Kg |
| Pentachlorophenol | 2.37 mg/Kg | < 2.37 mg/Kg |
| Phenol | 0.475 mg/Kg | < 0.475 mg/Kg |
| 2,4,5-Trichlorophenol | 2.37 mg/Kg | < 2.37 mg/Kg |
| 2,4,6-Trichlorophenol | 0.475 mg/Kg | < 0.475 mg/Kg |



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REPORT NUMBER : D97-8054-40
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 59.9 % |
| 2-Fluorobiphenyl (SS) | | 62.7 % |
| Terphenyl-d14 (SS) | | 66.3 % |
| Phenol-d6 (SS) | | 62.7 % |
| 2-Fluorophenol (SS) | | 53.6 % |
| 2,4,6-Tribromophenol (SS) | | 56.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 30-JUN-1997

REPORT NUMBER : D97-8054-40
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70315-42 DR-SD4
: SFL Landfill
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 29-JUN-1997
ANALYZED BY : WSW
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| 1-Dodecanol | 10.10 | ABN | 0.76 mg/Kg |
| Diisodecyl phthalate | 23.13 | ABN | 100 mg/Kg |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED: 30-June-1997 REPORT NUMBER: D97-8054
REPORT DATE: 31-July-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-June-1997

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CASE NARRATIVE COMMENTS:

The results were reported on a dry weight basis, having been corrected for total solids.

The EPA 8151 analysis was substituted for the EPA 8150 analysis, as the EPA 8150 analysis is not longer used.

**EPA 8270 analysis**

**QC Batch - AC141-37**

The matrix spike duplicate samples exhibited a 1,2,4-Trichlorobenzene recovery outside control limits. However, the blank spike and blank spike duplicate samples exhibited recoveries within limits and were used to validate the data within this batch.

**EPA 8080 analysis**

**QC Batch - AC141-94A**

The matrix spike and matrix spike duplicate samples exhibited Endrin recoveries outside control limits. However, the laboratory control sample exhibited a recovery within limits and was used to validate the data within this batch.

**EPA 8151 analysis**

During the initial analysis, the method blank contained excessive contamination. The samples were re-extracted on July 16,1997. The samples were not extraction by the EPA 8150 method, as the approval ended on June 13,1997. The re-extraction took place outside the recommended EPA holding time, the following samples were affected: D97-8054-20, 27 through 30, and 34 through 41. The invoice does not reflect these samples.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED: 30-June-1997 REPORT NUMBER: D97-8054
REPORT DATE: 31-July-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran
PROJECT : Laredo S70315-1-32,34-38,40-42
DATE SAMPLED : 27-June-1997

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REVISED CASE NARRATIVE COMMENTS:

The results were reported on a dry weight basis, having been corrected for total solids.

The EPA 8151 analysis was substituted for the EPA 8150 analysis, as the EPA 8150 analysis is not longer used.

**EPA 8270 analysis**

**QC Batch - AC141-37**

The matrix spike duplicate samples exhibited a 1,2,4-Trichlorobenzene recovery outside control limits. However, the blank spike and blank spike duplicate samples exhibited recoveries within limits and were used to validate the data within this batch.

**EPA 8080 analysis**

**QC Batch - AC141-94A**

The matrix spike and matrix spike duplicate samples exhibited Endrin recoveries outside control limits. However, the laboratory control sample exhibited a recovery within limits and was used to validate the data within this batch.

For sample D97-8054-14(S70315-14 LW-W10), the chlorinated pesticide analysis was not performed due to login error. The invoice will be adjusted accordingly.

**EPA 8151 analysis**

During the initial analysis, the method blank contained excessive contamination. The samples were re-extracted on July 16,1997. The samples were not extraction by the EPA 8150 method, as the approval ended on June 13,1997. The re-extraction took place outside the recommended EPA holding time, the following samples were affected: D97-8054-20, 27 through 30, and 34 through 41. The invoice does not reflect these samples.

Cont. D97-8054

Metals analysis

**Selenium**
Due to matrix interference, the samples submitted for selenium were performed at a dilution. The selenium results were less than the reporting limits.

**Arsenic**
Due to matrix interference, the arsenic analysis of sample D97-8054-6 was performed at a dilution. The results were less than the reporting limits.

**Sodium**
Due to matrix interference, the sodium analysis of sample D97-8054-30 was performed at a dilution. The results were less than the reporting limits.

**Potassium**
Due to matrix interference, the potassium analysis of sample D97-8054-34 was performed at a dilution. The results were less than the reporting limits.

No further issues were noted during the sample analysis of this job.

Please refer to the attached case narrative summary for sample identifications, and analytical requests.

If you have any questions, please call Mr. John Todd at (972) 238-5591.

Amy Pence
Data Review/QC

# SWF-EV-L Report No. 16824-3
# Results of Chemical Analyses of Water and Soil Samples

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-26 LF-SB49(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.8 mg/Kg | 8000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.591 mg/Kg | 3.52 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 41.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.45 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-22 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59 mg/Kg | 18900 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 4.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 7.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.18 mg/Kg | 4.77 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 11.8 mg/Kg | 9550 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.142 mg/Kg | 0.812 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-22 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 118 | mg/Kg | 1420 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 59.1 | mg/Kg | 2070 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.2 | mg/Kg | 157 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 118 | mg/Kg | 1270 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.2 | mg/Kg | 7.3 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.59 | mg/Kg | 7.32 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 5.9 | mg/Kg | < 5.9 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-22 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 2.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.18 mg/Kg | < 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 14.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.55 mg/Kg | 33.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-26 LF-SB49(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 84.6 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154041J | | | |

Applicable results are reported on Dry Weight basis.

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## Environmental Laboratories

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REPORT NUMBER : D97-8277-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-26 LF-SB49(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 59.1 µg/Kg | < 59.1 µg/Kg |
| 2,4-DB | 59.1 µg/Kg | < 59.1 µg/Kg |
| 2,4,5-T | 5.91 µg/Kg | < 5.91 µg/Kg |
| 2,4,5-TP(Silvex) | 5.91 µg/Kg | < 5.91 µg/Kg |
| Dalapon | 236 µg/Kg | < 236 µg/Kg |
| Dicamba | 5.91 µg/Kg | < 5.91 µg/Kg |
| Dichlorprop | 59.1 µg/Kg | < 59.1 µg/Kg |
| Dinoseb | 23.6 µg/Kg | < 23.6 µg/Kg |
| MCPA | 23600 µg/Kg | < 23600 µg/Kg |
| MCPP | 23600 µg/Kg | < 23600 µg/Kg |



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REPORT NUMBER : D97-8277-22
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 75.4 % |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-26 LF-SB49(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.16 µg/Kg | < 3.16 µg/Kg |
| Alpha-BHC | 2.37 µg/Kg | < 2.37 µg/Kg |
| Beta-BHC | 4.74 µg/Kg | < 4.74 µg/Kg |
| Delta-BHC | 7.11 µg/Kg | < 7.11 µg/Kg |
| Gamma-BHC(Lindane) | 3.16 µg/Kg | < 3.16 µg/Kg |
| Chlordane | 11.1 µg/Kg | < 11.1 µg/Kg |
| 4,4'-DDD | 8.69 µg/Kg | < 8.69 µg/Kg |
| 4,4'-DDE | 3.16 µg/Kg | < 3.16 µg/Kg |
| 4,4'-DDT | 9.48 µg/Kg | < 9.48 µg/Kg |
| Dieldrin | 1.58 µg/Kg | < 1.58 µg/Kg |
| Endosulfan I | 11.1 µg/Kg | < 11.1 µg/Kg |
| Endosulfan II | 3.16 µg/Kg | < 3.16 µg/Kg |
| Endosulfan Sulfate | 52.1 µg/Kg | < 52.1 µg/Kg |
| Endrin | 4.74 µg/Kg | < 4.74 µg/Kg |



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REPORT NUMBER : D97-8277-22
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.2 | µg/Kg | < | 18.2 | µg/Kg |
| Heptachlor | 2.37 | µg/Kg | < | 2.37 | µg/Kg |
| Heptachlor Epoxide | 65.5 | µg/Kg | < | 65.5 | µg/Kg |
| Methoxychlor | 139 | µg/Kg | < | 139 | µg/Kg |
| Toxaphene | 190 | µg/Kg | < | 190 | µg/Kg |
| Aroclor-1016 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1221 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1232 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1242 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1248 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1254 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1260 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 116 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 76.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-26 LF-SB49(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707112004

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.6 µg/Kg | < 23.6 µg/Kg |
| Acrylonitrile | 5.91 µg/Kg | < 5.91 µg/Kg |
| Benzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| Bromobenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| Bromochloromethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| Bromodichloromethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| Bromoform | 5.91 µg/Kg | < 5.91 µg/Kg |
| Carbon disulfide | 5.91 µg/Kg | < 5.91 µg/Kg |
| Carbon tetrachloride | 5.91 µg/Kg | < 5.91 µg/Kg |
| Chlorobenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| Chloroethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| Chloroform | 5.91 µg/Kg | < 5.91 µg/Kg |
| 2-Chlorotoluene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 4-Chlorotoluene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 2-Chloroethylvinyl ether | 11.8 µg/Kg | < 11.8 µg/Kg |
| Dibromochloromethane | 5.91 µg/Kg | < 5.91 µg/Kg |



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REPORT NUMBER : D97-8277-22
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.6 µg/Kg | < 29.6 µg/Kg |
| 1,2-Dibromoethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,2-Dichlorobenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,3-Dichlorobenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,4-Dichlorobenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| trans-1,4-Dichloro-2-butene | 118 µg/Kg | < 118 µg/Kg |
| 1,1-Dichloroethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,2-Dichloroethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,1-Dichloroethene | 5.91 µg/Kg | < 5.91 µg/Kg |
| cis-1,2-Dichloroethene | 5.91 µg/Kg | < 5.91 µg/Kg |
| trans-1,2-Dichloroethene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,2-Dichloropropane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 2,2-Dichloropropane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,1-Dichloropropene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,3-Dichloropropane | 5.91 µg/Kg | < 5.91 µg/Kg |
| cis-1,3-Dichloropropene | 5.91 µg/Kg | < 5.91 µg/Kg |
| trans-1,3-Dichloropropene | 5.91 µg/Kg | < 5.91 µg/Kg |
| Ethylbenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 2-Hexanone | 59.1 µg/Kg | < 59.1 µg/Kg |
| Bromomethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| Chloromethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| Dibromomethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 2-Butanone | 118 µg/Kg | < 118 µg/Kg |
| Iodomethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| Methylene chloride | 5.91 µg/Kg | < 5.91 µg/Kg |
| 4-Methyl-2-pentanone | 118 µg/Kg | < 118 µg/Kg |

REPORT NUMBER : D97-8277-22
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| Tetrachloroethene | 5.91 µg/Kg | < 5.91 µg/Kg |
| Toluene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,1,1-Trichloroethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,1,2-Trichloroethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| Trichloroethene | 5.91 µg/Kg | < 5.91 µg/Kg |
| Trichlorofluoromethane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,2,3-Trichloropropane | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.91 µg/Kg | < 5.91 µg/Kg |
| Vinyl acetate | 59.1 µg/Kg | < 59.1 µg/Kg |
| Vinyl chloride | 2.36 µg/Kg | < 2.36 µg/Kg |
| m,p-Xylene | 5.91 µg/Kg | < 5.91 µg/Kg |
| o-Xylene | 5.91 µg/Kg | < 5.91 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 95.2 % |
| Toluene-d8 (SS) | | 99.4 % |
| Bromofluorobenzene (SS) | | 91.8 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-26 LF-SB49(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707112004

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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## Environmental Laboratories

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-26 LF-SB49(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Acenaphthylene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(a)anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(b)fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(k)fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(g,h,i)perylene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(a)pyrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzyl alcohol | 0.768 mg/Kg | < 0.768 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-chloroethyl)ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.390 mg/Kg | < 0.390 mg/Kg |



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REPORT NUMBER : D97-8277-22
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| Carbazole | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Chloroaniline | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Chloronaphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Chrysene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Dibenz(a,h)anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Dibenzofuran | 0.390 mg/Kg | < 0.390 mg/Kg |
| Di-n-butylphthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,2-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,3-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,4-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.390 mg/Kg | < 0.390 mg/Kg |
| Diethyl phthalate | 0.390 mg/Kg | 1.03 mg/Kg |
| Dimethyl phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dinitrotoluene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,6-Dinitrotoluene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Di-n-octylphthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| Fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Fluorene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorobutadiene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorocyclopentadiene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachloroethane | 0.390 mg/Kg | < 0.390 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Isophorone | 0.390 mg/Kg | < 0.390 mg/Kg |

REPORT NUMBER : D97-8277-22
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Naphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 3-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 4-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| Nitrobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| N-Nitrosodiphenylamine | 0.390 mg/Kg | < 0.390 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.390 mg/Kg | < 0.390 mg/Kg |
| Phenanthrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Pyrene | 0.390 mg/Kg | < 0.390 mg/kg |
| 1,2,4-Trichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzoic acid | 0.946 mg/Kg | < 0.946 mg/Kg |
| 4-Chloro-3-methylphenol | 0.768 mg/Kg | < 0.768 mg/Kg |
| 2-Chlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dichlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dimethylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4-Dinitrophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2-Methylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Methylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Nitrophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Nitrophenol | 0.946 mg/Kg | < 0.946 mg/Kg |
| Pentachlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| Phenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4,5-Trichlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4,6-Trichlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |



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REPORT NUMBER : D97-8277-22
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 77.3 % |
| 2-Fluorobiphenyl (SS) | | 71.9 % |
| Terphenyl-d14 (SS) | | 72.5 % |
| Phenol-d6 (SS) | | 70.6 % |
| 2-Fluorophenol (SS) | | 73.6 % |
| 2,4,6-Tribromophenol (SS) | | 71.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-22
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-26 LF-SB49(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-27 LF-SB50(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.57 mg/Kg | < 0.57 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.5 mg/Kg | 9930 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.573 mg/Kg | 2.75 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.1 mg/Kg | 103 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.34 mg/Kg | 0.57 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-23 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 57 mg/Kg | 15300 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.57 mg/Kg | < 0.57 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.1 mg/Kg | 5.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 9.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.15 mg/Kg | 4.50 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 287 mg/Kg | 11800 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.138 mg/Kg | < 0.138 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |

REPORT NUMBER : D97-8277-23 PAGE 3

| TOTAL METALS | | | | | | |
|---|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | | |
| Potassium | /1 | 115 | mg/Kg | 1930 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Magnesium | /1 | 57.3 | mg/Kg | 2490 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Manganese | /1 | 1.1 | mg/Kg | 140 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Sodium | /1 | 115 | mg/Kg | 278 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Nickel | /1 | 1.1 | mg/Kg | 8.4 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Lead | /1 | 0.57 | mg/Kg | 8.74 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Antimony | /1 | 5.7 | mg/Kg | < | 5.7 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |

REPORT NUMBER : D97-8277-23 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.57 mg/Kg | < 0.57 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.1 mg/Kg | 1.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.15 mg/Kg | < 1.15 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.1 mg/Kg | 19.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.44 mg/Kg | 37.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-27 LF-SB50(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 87.2 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154041J | | | |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-27 LF-SB50(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 57.3 µg/Kg | < 57.3 µg/Kg |
| 2,4-DB | 57.3 µg/Kg | < 57.3 µg/Kg |
| 2,4,5-T | 5.73 µg/Kg | < 5.73 µg/Kg |
| 2,4,5-TP(Silvex) | 5.73 µg/Kg | < 5.73 µg/Kg |
| Dalapon | 229 µg/Kg | < 229 µg/Kg |
| Dicamba | 5.73 µg/Kg | < 5.73 µg/Kg |
| Dichlorprop | 57.3 µg/Kg | < 57.3 µg/Kg |
| Dinoseb | 22.9 µg/Kg | < 22.9 µg/Kg |
| MCPA | 22900 µg/Kg | < 22900 µg/Kg |
| MCPP | 22900 µg/Kg | < 22900 µg/Kg |



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REPORT NUMBER : D97-8277-23
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 96.1 % |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-27 LF-SB50(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 660
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.04 µg/Kg | < 3.04 µg/Kg |
| Alpha-BHC | 2.28 µg/Kg | < 2.28 µg/Kg |
| Beta-BHC | 4.56 µg/Kg | < 4.56 µg/Kg |
| Delta-BHC | 6.84 µg/Kg | < 6.84 µg/Kg |
| Gamma-BHC(Lindane) | 3.04 µg/Kg | < 3.04 µg/Kg |
| Chlordane | 10.6 µg/Kg | < 10.6 µg/Kg |
| 4,4'-DDD | 8.36 µg/Kg | < 8.36 µg/Kg |
| 4,4'-DDE | 3.04 µg/Kg | < 3.04 µg/Kg |
| 4,4'-DDT | 9.12 µg/Kg | < 9.12 µg/Kg |
| Dieldrin | 1.52 µg/Kg | < 1.52 µg/Kg |
| Endosulfan I | 10.6 µg/Kg | < 10.6 µg/Kg |
| Endosulfan II | 3.04 µg/Kg | < 3.04 µg/Kg |
| Endosulfan Sulfate | 50.2 µg/Kg | < 50.2 µg/Kg |
| Endrin | 4.56 µg/Kg | < 4.56 µg/Kg |



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REPORT NUMBER : D97-8277-23
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldshyde | 17.5 | µg/Kg | < | 17.5 | µg/Kg |
| Heptachlor | 2.28 | µg/Kg | < | 2.28 | µg/Kg |
| Heptachlor Epoxide | 63.1 | µg/Kg | < | 63.1 | µg/Kg |
| Methoxychlor | 134 | µg/Kg | < | 134 | µg/Kg |
| Toxaphene | 182 | µg/Kg | < | 182 | µg/Kg |
| Aroclor-1016 | 49.4 | µg/Kg | < | 49.4 | µg/Kg |
| Aroclor-1221 | 49.4 | µg/Kg | < | 49.4 | µg/Kg |
| Aroclor-1232 | 49.4 | µg/Kg | < | 49.4 | µg/Kg |
| Aroclor-1242 | 49.4 | µg/Kg | < | 49.4 | µg/Kg |
| Aroclor-1248 | 49.4 | µg/Kg | < | 49.4 | µg/Kg |
| Aroclor-1254 | 49.4 | µg/Kg | < | 49.4 | µg/Kg |
| Aroclor-1260 | 49.4 | µg/Kg | < | 49.4 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 127 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 73.3 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-27 LF-SB50(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707112004

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 22.9 µg/Kg | < 22.9 µg/Kg |
| Acrylonitrile | 5.73 µg/Kg | < 5.73 µg/Kg |
| Benzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| Bromobenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| Bromochloromethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| Bromodichloromethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| Bromoform | 5.73 µg/Kg | < 5.73 µg/Kg |
| Carbon disulfide | 5.73 µg/Kg | < 5.73 µg/Kg |
| Carbon tetrachloride | 5.73 µg/Kg | < 5.73 µg/Kg |
| Chlorobenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| Chloroethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| Chloroform | 5.73 µg/Kg | < 5.73 µg/Kg |
| 2-Chlorotoluene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 4-Chlorotoluene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 2-Chloroethylvinyl ether | 11.5 µg/Kg | < 11.5 µg/Kg |
| Dibromochloromethane | 5.73 µg/Kg | < 5.73 µg/Kg |

REPORT NUMBER : D97-8277-23
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 28.7 µg/Kg | < 28.7 µg/Kg |
| 1,2-Dibromoethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,2-Dichlorobenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,3-Dichlorobenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,4-Dichlorobenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| trans-1,4-Dichloro-2-butene | 115 µg/Kg | < 115 µg/Kg |
| 1,1-Dichloroethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,2-Dichloroethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,1-Dichloroethene | 5.73 µg/Kg | < 5.73 µg/Kg |
| cis-1,2-Dichloroethene | 5.73 µg/Kg | < 5.73 µg/Kg |
| trans-1,2-Dichloroethene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,2-Dichloropropane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 2,2-Dichloropropane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,1-Dichloropropene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,3-Dichloropropane | 5.73 µg/Kg | < 5.73 µg/Kg |
| cis-1,3-Dichloropropene | 5.73 µg/Kg | < 5.73 µg/Kg |
| trans-1,3-Dichloropropene | 5.73 µg/Kg | < 5.73 µg/Kg |
| Ethylbenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 2-Hexanone | 57.3 µg/Kg | < 57.3 µg/Kg |
| Bromomethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| Chloromethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| Dibromomethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 2-Butanone | 115 µg/Kg | < 115 µg/Kg |
| Iodomethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| Methylene chloride | 5.73 µg/Kg | < 5.73 µg/Kg |
| 4-Methyl-2-pentanone | 115 µg/Kg | < 115 µg/Kg |

REPORT NUMBER : D97-8277-23
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| Tetrachloroethene | 5.73 µg/Kg | < 5.73 µg/Kg |
| Toluene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,1,1-Trichloroethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,1,2-Trichloroethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| Trichloroethene | 5.73 µg/Kg | < 5.73 µg/Kg |
| Trichlorofluoromethane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,2,3-Trichloropropane | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.73 µg/Kg | < 5.73 µg/Kg |
| Vinyl acetate | 57.3 µg/Kg | < 57.3 µg/Kg |
| Vinyl chloride | 2.29 µg/Kg | < 2.29 µg/Kg |
| m,p-Xylene | 5.73 µg/Kg | < 5.73 µg/Kg |
| o-Xylene | 5.73 µg/Kg | < 5.73 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 96.8 % |
| Toluene-d8 (SS) | | 96.2 % |
| Bromofluorobenzene (SS) | | 102 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-27 LF-SB50(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707112004

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 11 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-27 LF-SB50(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Acenaphthylene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Anthracene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Benzo(a)anthracene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Benzo(b)fluoranthene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Benzo(k)fluoranthene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Benzo(g,h,i)perylene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Benzo(a)pyrene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Benzyl alcohol | 0.745 mg/Kg | < 0.745 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.378 mg/Kg | < 0.378 mg/Kg |
| Bis(2-chloroethyl)ether | 0.378 mg/Kg | < 0.378 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.378 mg/Kg | < 0.378 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.378 mg/Kg | < 0.378 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.378 mg/Kg | < 0.378 mg/Kg |



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REPORT NUMBER : D97-8277-23
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.378 mg/Kg | < 0.378 mg/Kg |
| Carbazole | 0.378 mg/Kg | < 0.378 mg/Kg |
| 4-Chloroaniline | 0.378 mg/Kg | < 0.378 mg/Kg |
| 2-Chloronaphthalene | 0.378 mg/Kg | < 0.378 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.378 mg/Kg | < 0.378 mg/Kg |
| Chrysene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Dibenz(a,h)anthracene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Dibenzofuran | 0.378 mg/Kg | < 0.378 mg/Kg |
| Di-n-butylphthalate | 0.378 mg/Kg | < 0.378 mg/Kg |
| 1,2-Dichlorobenzene | 0.378 mg/Kg | < 0.378 mg/Kg |
| 1,3-Dichlorobenzene | 0.378 mg/Kg | < 0.378 mg/Kg |
| 1,4-Dichlorobenzene | 0.378 mg/Kg | < 0.378 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.378 mg/Kg | < 0.378 mg/Kg |
| Diethyl phthalate | 0.378 mg/Kg | < 0.378 mg/Kg |
| Dimethyl phthalate | 0.378 mg/Kg | < 0.378 mg/Kg |
| 2,4-Dinitrotoluene | 0.378 mg/Kg | < 0.378 mg/Kg |
| 2,6-Dinitrotoluene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Di-n-octylphthalate | 0.378 mg/Kg | < 0.378 mg/Kg |
| Fluoranthene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Fluorene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Hexachlorobenzene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Hexachlorobutadiene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Hexachlorocyclopentadiene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Hexachloroethane | 0.378 mg/Kg | < 0.378 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Isophorone | 0.378 mg/Kg | < 0.378 mg/Kg |

REPORT NUMBER : D97-8277-23
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Naphthalene | 0.378 mg/Kg | < 0.378 mg/Kg |
| 2-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| 3-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| 4-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| Nitrobenzene | 0.378 mg/Kg | < 0.378 mg/Kg |
| N-Nitrosodiphenylamine | 0.378 mg/Kg | < 0.378 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.378 mg/Kg | < 0.378 mg/Kg |
| Phenanthrene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Pyrene | 0.378 mg/Kg | < 0.378 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.378 mg/Kg | < 0.378 mg/Kg |
| Benzoic acid | 0.917 mg/Kg | < 0.917 mg/Kg |
| 4-Chloro-3-methylphenol | 0.745 mg/Kg | < 0.745 mg/Kg |
| 2-Chlorophenol | 0.378 mg/Kg | < 0.378 mg/Kg |
| 2,4-Dichlorophenol | 0.378 mg/Kg | < 0.378 mg/Kg |
| 2,4-Dimethylphenol | 0.378 mg/Kg | < 0.378 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2,4-Dinitrophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2-Methylphenol | 0.378 mg/Kg | < 0.378 mg/Kg |
| 4-Methylphenol | 0.378 mg/Kg | < 0.378 mg/Kg |
| 2-Nitrophenol | 0.378 mg/Kg | < 0.378 mg/Kg |
| 4-Nitrophenol | 0.917 mg/Kg | < 0.917 mg/Kg |
| Pentachlorophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| Phenol | 0.378 mg/Kg | < 0.378 mg/Kg |
| 2,4,5-Trichlorophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2,4,6-Trichlorophenol | 0.378 mg/Kg | < 0.378 mg/Kg |



C4215

REPORT NUMBER : D97-8277-23 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 71.9 % |
| 2-Fluorobiphenyl (SS) | | 69.5 % |
| Terphenyl-d14 (SS) | | 97.6 % |
| Phenol-d6 (SS) | | 73.9 % |
| 2-Fluorophenol (SS) | | 72.4 % |
| 2,4,6-Tribromophenol (SS) | | 69.7 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-23
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-27 LF-SB50(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.38 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-28 LF-SB50(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.8 mg/Kg | 9180 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.590 mg/Kg | 2.24 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 69.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.47 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

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REPORT NUMBER : D97-8277-24 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59 mg/Kg | 13400 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 4.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 8.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.18 mg/Kg | 4.32 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 11.8 mg/Kg | 11100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.142 mg/Kg | < 0.142 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-24 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 118 mg/Kg | 1710 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Magnesium | /1 | 59.0 mg/Kg | 2350 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Manganese | /1 | 1.2 mg/Kg | 169 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Sodium | /1 | 118 mg/Kg | 1410 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Nickel | /1 | 1.2 mg/Kg | 7.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Lead | /1 | 0.59 mg/Kg | 7.62 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Antimony | /1 | 5.9 mg/Kg | < 5.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-24 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.18 mg/Kg | < 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 17.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.54 mg/Kg | 30.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-28 LF-SB50(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 84.7 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154041J | | | |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-28 LF-SB50(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 59.0 µg/Kg | < 59.0 µg/Kg |
| 2,4-DB | 59.0 µg/Kg | < 59.0 µg/Kg |
| 2,4,5-T | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2,4,5-TP(Silvex) | 5.90 µg/Kg | < 5.90 µg/Kg |
| Dalapon | 236 µg/Kg | < 236 µg/Kg |
| Dicamba | 5.90 µg/Kg | < 5.90 µg/Kg |
| Dichlorprop | 59.0 µg/Kg | < 59.0 µg/Kg |
| Dinoseb | 23.6 µg/Kg | < 23.6 µg/Kg |
| MCPA | 23600 µg/Kg | < 23600 µg/Kg |
| MCPP | 23600 µg/Kg | < 23600 µg/Kg |



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REPORT NUMBER : D97-8277-24
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 84.4 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-28 LF-SB50(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 680
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.22 µg/Kg | < 3.22 µg/Kg |
| Alpha-BHC | 2.41 µg/Kg | < 2.41 µg/Kg |
| Beta-BHC | 4.82 µg/Kg | < 4.82 µg/Kg |
| Delta-BHC | 7.24 µg/Kg | < 7.24 µg/Kg |
| Gamma-BHC(Lindane) | 3.22 µg/Kg | < 3.22 µg/Kg |
| Chlordane | 11.3 µg/Kg | < 11.3 µg/Kg |
| 4,4'-DDD | 8.84 µg/Kg | < 8.84 µg/Kg |
| 4,4'-DDE | 3.22 µg/Kg | < 3.22 µg/Kg |
| 4,4'-DDT | 9.65 µg/Kg | < 9.65 µg/Kg |
| Dieldrin | 1.61 µg/Kg | < 1.61 µg/Kg |
| Endosulfan I | 11.3 µg/Kg | < 11.3 µg/Kg |
| Endosulfan II | 3.22 µg/Kg | < 3.22 µg/Kg |
| Endosulfan Sulfate | 53.1 µg/Kg | < 53.1 µg/Kg |
| Endrin | 4.82 µg/Kg | < 4.82 µg/Kg |

REPORT NUMBER : D97-8277-24
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.5 | µg/Kg | < | 18.5 | µg/Kg |
| Heptachlor | 2.41 | µg/Kg | < | 2.41 | µg/Kg |
| Heptachlor Epoxide | 66.7 | µg/Kg | < | 66.7 | µg/Kg |
| Methoxychlor | 142 | µg/Kg | < | 142 | µg/Kg |
| Toxaphene | 193 | µg/Kg | < | 193 | µg/Kg |
| Aroclor-1016 | 52.3 | µg/Kg | < | 52.3 | µg/Kg |
| Aroclor-1221 | 52.3 | µg/Kg | < | 52.3 | µg/Kg |
| Aroclor-1232 | 52.3 | µg/Kg | < | 52.3 | µg/Kg |
| Aroclor-1242 | 52.3 | µg/Kg | < | 52.3 | µg/Kg |
| Aroclor-1248 | 52.3 | µg/Kg | < | 52.3 | µg/Kg |
| Aroclor-1254 | 52.3 | µg/Kg | < | 52.3 | µg/Kg |
| Aroclor-1260 | 52.3 | µg/Kg | < | 52.3 | µg/Kg |

| QUALITY CONTROL DATA | | | |
|---|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED | |
| Decachlorobiphenyl (SS) | | 124 | % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 73.9 | % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-28 LF-SB50(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707112004

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.6 µg/Kg | < 23.6 µg/Kg |
| Acrylonitrile | 5.90 µg/Kg | < 5.90 µg/Kg |
| Benzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Bromobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Bromochloromethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Bromodichloromethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Bromoform | 5.90 µg/Kg | < 5.90 µg/Kg |
| Carbon disulfide | 5.90 µg/Kg | < 5.90 µg/Kg |
| Carbon tetrachloride | 5.90 µg/Kg | < 5.90 µg/Kg |
| Chlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Chloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Chloroform | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2-Chlorotoluene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 4-Chlorotoluene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2-Chloroethylvinyl ether | 11.8 µg/Kg | < 11.8 µg/Kg |
| Dibromochloromethane | 5.90 µg/Kg | < 5.90 µg/Kg |



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REPORT NUMBER : D97-8277-24
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.5 µg/Kg | < 29.5 µg/Kg |
| 1,2-Dibromoethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2-Dichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,3-Dichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,4-Dichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| trans-1,4-Dichloro-2-butene | 118 µg/Kg | < 118 µg/Kg |
| 1,1-Dichloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2-Dichloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1-Dichloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| cis-1,2-Dichloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| trans-1,2-Dichloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2-Dichloropropane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2,2-Dichloropropane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1-Dichloropropene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,3-Dichloropropane | 5.90 µg/Kg | < 5.90 µg/Kg |
| cis-1,3-Dichloropropene | 5.90 µg/Kg | < 5.90 µg/Kg |
| trans-1,3-Dichloropropene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Ethylbenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2-Hexanone | 59.0 µg/Kg | < 59.0 µg/Kg |
| Bromomethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Chloromethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Dibromomethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 2-Butanone | 118 µg/Kg | < 118 µg/Kg |
| Iodomethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Methylene chloride | 5.90 µg/Kg | < 5.90 µg/Kg |
| 4-Methyl-2-pentanone | 118 µg/Kg | < 118 µg/Kg |

REPORT NUMBER : D97-8277-24
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Tetrachloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Toluene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1,1-Trichloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,1,2-Trichloroethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| Trichloroethene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Trichlorofluoromethane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2,3-Trichloropropane | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.90 µg/Kg | < 5.90 µg/Kg |
| Vinyl acetate | 59.0 µg/Kg | < 59.0 µg/Kg |
| Vinyl chloride | 2.36 µg/Kg | < 2.36 µg/Kg |
| m,p-Xylene | 5.90 µg/Kg | < 5.90 µg/Kg |
| o-Xylene | 5.90 µg/Kg | < 5.90 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 91.8 % |
| Toluene-d8 (SS) | | 99.6 % |
| Bromofluorobenzene (SS) | | 92.0 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-28 LF-SB50(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707112004

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-28 LF-SB50(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Acenaphthylene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(a)anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(b)fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(k)fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(g,h,i)perylene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(a)pyrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzyl alcohol | 0.767 mg/Kg | < 0.767 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-chloroethyl)ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.390 mg/Kg | < 0.390 mg/Kg |



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REPORT NUMBER : D97-8277-24
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| Carbazole | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Chloroaniline | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Chloronaphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Chrysene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Dibenz(a,h)anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Dibenzofuran | 0.390 mg/Kg | < 0.390 mg/Kg |
| Di-n-butylphthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,2-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,3-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,4-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.390 mg/Kg | < 0.390 mg/Kg |
| Diethyl phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| Dimethyl phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dinitrotoluene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,6-Dinitrotoluene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Di-n-octylphthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| Fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Fluorene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorobutadiene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorocyclopentadiene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachloroethane | 0.390 mg/Kg | < 0.390 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Isophorone | 0.390 mg/Kg | < 0.390 mg/Kg |

REPORT NUMBER : D97-8277-24
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Naphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 3-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 4-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| Nitrobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| N-Nitrosodiphenylamine | 0.390 mg/Kg | < 0.390 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.390 mg/Kg | < 0.390 mg/Kg |
| Phenanthrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Pyrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzoic acid | 0.945 mg/Kg | < 0.945 mg/Kg |
| 4-Chloro-3-methylphenol | 0.767 mg/Kg | < 0.767 mg/Kg |
| 2-Chlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dichlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dimethylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4-Dinitrophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2-Methylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Methylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Nitrophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Nitrophenol | 0.945 mg/Kg | < 0.945 mg/Kg |
| Pentachlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| Phenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4,5-Trichlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4,6-Trichlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |



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REPORT NUMBER : D97-8277-24
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 72.5 % |
| 2-Fluorobiphenyl (SS) | | 64.7 % |
| Terphenyl-d14 (SS) | | 76.1 % |
| Phenol-d6 (SS) | | 75.7 % |
| 2-Fluorophenol (SS) | | 73.3 % |
| 2,4,6-Tribromophenol (SS) | | 75.7 % |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-24
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-28 LF-SB50(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-29 LF-SB50(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.9 mg/Kg | 7920 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.596 mg/Kg | 2.20 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 55.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.36 mg/Kg | 0.48 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-25 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 60 mg/Kg | 10500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 5.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 13.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.19 mg/Kg | 4.15 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 11.9 mg/Kg | 11600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.143 mg/Kg | < 0.143 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |

REPORT NUMBER : D97-8277-25 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 119 | mg/Kg | 1600 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 59.6 | mg/Kg | 2270 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.2 | mg/Kg | 164 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 2980 | mg/Kg | 3230 | mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.2 | mg/Kg | 11.5 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.60 | mg/Kg | 8.40 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 6.0 | mg/Kg | < 6.0 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-25 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.19 mg/Kg | < 1.19 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 15.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-29 LF-SB50(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 83.9 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154041J | | | |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-29 LF-SB50(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 59.6 µg/Kg | < 59.6 µg/Kg |
| 2,4-DB | 59.6 µg/Kg | < 59.6 µg/Kg |
| 2,4,5-T | 5.96 µg/Kg | < 5.96 µg/Kg |
| 2,4,5-TP(Silvex) | 5.96 µg/Kg | < 5.96 µg/Kg |
| Dalapon | 238 µg/Kg | < 238 µg/Kg |
| Dicamba | 5.96 µg/Kg | < 5.96 µg/Kg |
| Dichlorprop | 59.6 µg/Kg | < 59.6 µg/Kg |
| Dinoseb | 23.8 µg/Kg | < 23.8 µg/Kg |
| MCPA | 23800 µg/Kg | < 23800 µg/Kg |
| MCPP | 23800 µg/Kg | < 23800 µg/Kg |



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REPORT NUMBER : D97-8277-25
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 75.1 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-29 LF-SB50(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 660
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | | |
|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS |
| Aldrin | 3.15 µg/Kg | < | 3.15 µg/Kg |
| Alpha-BHC | 2.36 µg/Kg | < | 2.36 µg/Kg |
| Beta-BHC | 4.73 µg/Kg | < | 4.73 µg/Kg |
| Delta-BHC | 7.09 µg/Kg | < | 7.09 µg/Kg |
| Gamma-BHC(Lindane) | 3.15 µg/Kg | < | 3.15 µg/Kg |
| Chlordane | 11.0 µg/Kg | < | 11.0 µg/Kg |
| 4,4'-DDD | 8.67 µg/Kg | < | 8.67 µg/Kg |
| 4,4'-DDE | 3.15 µg/Kg | < | 3.15 µg/Kg |
| 4,4'-DDT | 9.45 µg/Kg | < | 9.45 µg/Kg |
| Dieldrin | 1.58 µg/Kg | < | 1.58 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < | 11.0 µg/Kg |
| Endosulfan II | 3.15 µg/Kg | < | 3.15 µg/Kg |
| Endosulfan Sulfate | 52.0 µg/Kg | < | 52.0 µg/Kg |
| Endrin | 4.73 µg/Kg | < | 4.73 µg/Kg |



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REPORT NUMBER : D97-8277-25
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.1 | µg/Kg | < | 18.1 | µg/Kg |
| Heptachlor | 2.36 | µg/Kg | < | 2.36 | µg/Kg |
| Heptachlor Epoxide | 65.4 | µg/Kg | < | 65.4 | µg/Kg |
| Methoxychlor | 139 | µg/Kg | < | 139 | µg/Kg |
| Toxaphene | 189 | µg/Kg | < | 189 | µg/Kg |
| Aroclor-1016 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1221 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1232 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1242 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1248 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1254 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |
| Aroclor-1260 | 51.2 | µg/Kg | < | 51.2 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 144 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 72.9 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

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REPORT NUMBER : D97-8277-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-29 LF-SB50(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707112004

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.8 µg/Kg | < 23.8 µg/Kg |
| Acrylonitrile | 5.96 µg/Kg | < 5.96 µg/Kg |
| Benzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| Bromobenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| Bromochloromethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| Bromodichloromethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| Bromoform | 5.96 µg/Kg | < 5.96 µg/Kg |
| Carbon disulfide | 5.96 µg/Kg | < 5.96 µg/Kg |
| Carbon tetrachloride | 5.96 µg/Kg | < 5.96 µg/Kg |
| Chlorobenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| Chloroethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| Chloroform | 5.96 µg/Kg | < 5.96 µg/Kg |
| 2-Chlorotoluene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 4-Chlorotoluene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 2-Chloroethylvinyl ether | 11.9 µg/Kg | < 11.9 µg/Kg |
| Dibromochloromethane | 5.96 µg/Kg | < 5.96 µg/Kg |



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REPORT NUMBER : D97-8277-25
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.8 µg/Kg | < 29.8 µg/Kg |
| 1,2-Dibromoethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,2-Dichlorobenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,3-Dichlorobenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,4-Dichlorobenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| trans-1,4-Dichloro-2-butene | 119 µg/Kg | < 119 µg/Kg |
| 1,1-Dichloroethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,2-Dichloroethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,1-Dichloroethene | 5.96 µg/Kg | < 5.96 µg/Kg |
| cis-1,2-Dichloroethene | 5.96 µg/Kg | < 5.96 µg/Kg |
| trans-1,2-Dichloroethene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,2-Dichloropropane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 2,2-Dichloropropane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,1-Dichloropropene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,3-Dichloropropane | 5.96 µg/Kg | < 5.96 µg/Kg |
| cis-1,3-Dichloropropene | 5.96 µg/Kg | < 5.96 µg/Kg |
| trans-1,3-Dichloropropene | 5.96 µg/Kg | < 5.96 µg/Kg |
| Ethylbenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 2-Hexanone | 59.6 µg/Kg | < 59.6 µg/Kg |
| Bromomethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| Chloromethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| Dibromomethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 2-Butanone | 119 µg/Kg | < 119 µg/Kg |
| Iodomethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| Methylene chloride | 5.96 µg/Kg | < 5.96 µg/Kg |
| 4-Methyl-2-pentanone | 119 µg/Kg | < 119 µg/Kg |

REPORT NUMBER : D97-8277-25
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| Tetrachloroethene | 5.96 µg/Kg | < 5.96 µg/Kg |
| Toluene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,1,1-Trichloroethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,1,2-Trichloroethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| Trichloroethene | 5.96 µg/Kg | < 5.96 µg/Kg |
| Trichlorofluoromethane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,2,3-Trichloropropane | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.96 µg/Kg | < 5.96 µg/Kg |
| Vinyl acetate | 59.6 µg/Kg | < 59.6 µg/Kg |
| Vinyl chloride | 2.38 µg/Kg | < 2.38 µg/Kg |
| m,p-Xylene | 5.96 µg/Kg | < 5.96 µg/Kg |
| o-Xylene | 5.96 µg/Kg | < 5.96 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 95.6 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 90.8 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

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REPORT NUMBER : D97-8277-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-29 LF-SB50(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707112004

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
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ADDRESS : 4815 Cass St.
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-29 LF-SB50(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Acenaphthylene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(a)anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(b)fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(k)fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(g,h,i)perylene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzo(a)pyrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzyl alcohol | 0.768 mg/Kg | < 0.768 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-chloroethyl)ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.390 mg/Kg | < 0.390 mg/Kg |



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REPORT NUMBER : D97-8277-25
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| Carbazole | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Chloroaniline | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Chloronaphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.390 mg/Kg | < 0.390 mg/Kg |
| Chrysene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Dibenz(a,h)anthracene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Dibenzofuran | 0.390 mg/Kg | < 0.390 mg/Kg |
| Di-n-butylphthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,2-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,3-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,4-Dichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.390 mg/Kg | < 0.390 mg/Kg |
| Diethyl phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| Dimethyl phthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dinitrotoluene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,6-Dinitrotoluene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Di-n-octylphthalate | 0.390 mg/Kg | < 0.390 mg/Kg |
| Fluoranthene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Fluorene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorobutadiene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachlorocyclopentadiene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Hexachloroethane | 0.390 mg/Kg | < 0.390 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Isophorone | 0.390 mg/Kg | < 0.390 mg/Kg |

REPORT NUMBER : D97-8277-25
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Naphthalene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 3-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 4-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| Nitrobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| N-Nitrosodiphenylamine | 0.390 mg/Kg | < 0.390 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.390 mg/Kg | < 0.390 mg/Kg |
| Phenanthrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Pyrene | 0.390 mg/Kg | < 0.390 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.390 mg/Kg | < 0.390 mg/Kg |
| Benzoic acid | 0.944 mg/Kg | < 0.944 mg/Kg |
| 4-Chloro-3-methylphenol | 0.768 mg/Kg | < 0.768 mg/Kg |
| 2-Chlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dichlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4-Dimethylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4-Dinitrophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2-Methylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Methylphenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2-Nitrophenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 4-Nitrophenol | 0.944 mg/Kg | < 0.944 mg/Kg |
| Pentachlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| Phenol | 0.390 mg/Kg | < 0.390 mg/Kg |
| 2,4,5-Trichlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4,6-Trichlorophenol | 0.390 mg/Kg | < 0.390 mg/Kg |



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REPORT NUMBER : D97-8277-25 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 58.7 % |
| 2-Fluorobiphenyl (SS) | | 56.9 % |
| Terphenyl-d14 (SS) | | 62.4 % |
| Phenol-d6 (SS) | | 67.3 % |
| 2-Fluorophenol (SS) | | 63.9 % |
| 2,4,6-Tribromophenol (SS) | | 64.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-25
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-29 LF-SB50(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

U.S. ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, Texas 75235

**Report Date:** 25 July 97

**District:** Tulsa
**Date Sampled:** 01-Jul-97
**Field Number:** LF-SB50(8.0)QA
**SWD Number:** S70317-30
**Batch Number:** Arsenic:7-108S
Antimony: 7-108S
Selenium:7-108S
**Sample Matrix:** Soil

**Project:** Laredo-SFL
**Location:** Landfill
**Date Received:** 03-Jul-97

Mercury:Hg31S97

Thallium:7-108S
**Analyst:** DN,RAR

| Parameter | MDL | LRL | Results | Units | Date Analyzed | Dilution Factor | Method |
|---|---|---|---|---|---|---|---|
| Antimony | 0.2 | 0.5 | 0.2J* | mg/Kg | 07/21/97 | 1 | 7041 |
| Arsenic | 0.03 | 0.25 | 4.8* | mg/Kg | 07/10/97 | 1 | 7060A |
| Mercury | 0.005 | 0.02 | 0.008J | mg/Kg | 07/15/97 | 1 | 7471 |
| Selenium | 0.05 | 0.25 | 0.70* | mg/Kg | 07/09/97 | 1 | 7740 |
| Thallium | 0.2 | 0.5 | 0.2J* | mg/Kg | 07/17/97 | 1 | 7841 |

MDL - Method Detection Limit  LRL# - Laboratory Reporting Limit
*Metals analyzed by Method of Std Additions
#The LRL is the lowest standard used in constructing the calibration curve. Any value between the MDL and LRL is a "J" value.

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project : Former Webb AFB
Field ID : LF-SB50(8.0)QA
Date Sampled : 01 July 1997
Date analysed : 11 July 1997
Method No : 8260A
Analyst : JSN
Dilution Factor : 1

Date Reported : 29 July 1997
Site : Landfill
Date received : 03 July 1997
SWD Lab No.: S70317-30
QC Batch No : 970711S1
Sample Matrix: Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Acetone | 30 | 100 | < 30 |
| Benzene | 1 | 5 | < 1.0 |
| Bromobenzene | 1 | 5 | < 1.0 |
| Bromochloromethane | 2 | 10 | < 2.0 |
| Bromodichloromethane | 1 | 5 | < 1.0 |
| Bromoform | 1 | 5 | < 1.0 |
| Bromomethane | 2 | 10 | < 2.0 |
| 2-Butanone | 30 | 100 | < 30 |
| n-Butylbenzene | 1 | 5 | < 1.0 |
| sec- Butylbenzene | 1 | 5 | < 1.0 |
| tert-Butylbenzene | 1 | 5 | < 1.0 |
| Carbon tetrachloride | 1 | 5 | < 1.0 |
| Chlorobenzene | 1 | 5 | < 1.0 |
| Chloroethane | 3 | 10 | < 3.0 |
| Chloroform | 1 | 5 | < 1.0 |
| Chloromethane | 3 | 10 | < 3.0 |
| 2-Chlorotoluene | 1 | 5 | < 1.0 |
| 4-Chlorotoluene | 1 | 5 | < 1.0 |
| Dibromochloromethane | 1 | 5 | < 1.0 |
| 1,2-Dibromo-3-chloropropane | 6 | 25 | < 6.0 |
| 1,2-Dibromoethane | 1 | 5 | < 1.0 |
| Dibromomethane | 1 | 5 | < 1.0 |
| 1,2-Dichlorobenzene | 1 | 5 | < 1.0 |
| 1,3-Dichlorobenzene | 1 | 5 | < 1.0 |
| 1,4-Dichlorobenzene | 1 | 5 | < 1.0 |

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Project : Former Webb AFB
Field ID : LF-SB50(8.0)QA
Date Sampled : 01 July 1997
Date analysed : 11 July 1997
Method No : 8260A
Analyst : JSN
Dilution Factor : 1

Date Reported : 29 July 1997
Site : Landfill
Date received : 03 July 1997
SWD Lab No.: S70317-30
QC Batch No : 970711S1
Sample Matrix: Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Dichlorodifluoromethane | 2 | 10 | < 2.0 |
| 1,1-Dichloroethane | 1 | 5 | < 1.0 |
| 1,2-Dichloroethane | 1 | 5 | < 1.0 |
| 1,1-Dichloroethene | 1 | 5 | < 1.0 |
| cis-1,2-Dichloroethene | 1 | 5 | < 1.0 |
| trans-1,2-Dichloroethene | 2 | 10 | < 2.0 |
| 1,2-Dichloropropane | 1 | 5 | < 1.0 |
| 1,3-Dichloropropane | 1 | 5 | < 1.0 |
| 2,2-Dichloropropane | 1 | 5 | < 1.0 |
| 1,1-Dichloropropene | 2 | 10 | < 2.0 |
| Ethylbenzene | 1 | 5 | < 1.0 |
| 2-Hexanone | 30 | 100 | < 30 |
| Hexachlorobutadiene | 1 | 5 | < 1.0 |
| Isopropylbenzene | 1 | 5 | < 1.0 |
| p-Isopropyltoluene | 1 | 5 | < 1.0 |
| 4-Methyl-2-pentanone | 30 | 100 | < 30 |
| Methylene chloride | 2 | 10 | < 2.0 |
| Naphthalene | 1 | 5 | < 1.0 |
| n-Propylbenzene | 1 | 5 | < 1.0 |
| Styrene | 1 | 5 | < 1.0 |
| 1,1,1,2-Tetrachloroethane | 1 | 5 | < 1.0 |
| 1,1,2,2-Tetrachloroethane | 2 | 10 | < 2.0 |
| Tetrachloroethene | 1 | 5 | < 1.0 |
| Toluene | 2 | 10 | < 2.0 |
| 1,2,3-Trichlorobenzene | 1 | 5 | < 1.0 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project : Former Webb AFB
Field ID : LF-SB50(8.0)QA
Date Sampled : 01 July 1997
Date analysed : 11 July 1997
Method No : 8260A
Analyst : JSN
Dilution Factor : 1

Date Reported : 29 July 1997
Site : Landfill
Date received : 03 July 1997
SWD Lab No.: S70317-30
QC Batch No : 970711S1
Sample Matrix: Soil

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| 1,2,4-Trichlorobenzene | 1 | 5 | < 1.0 |
| 1,1,1-Trichloroethane | 1 | 5 | < 1.0 |
| 1,1,2-Trichloroethane | 1 | 5 | < 1.0 |
| Trichloroethene | 1 | 5 | < 1.0 |
| Trichlorofluoromethane | 1 | 10 | < 1.0 |
| 1,2,3-Trichloropropane | 2 | 10 | < 2.0 |
| 1,2,4-Trimethylbenzene | 1 | 5 | < 1.0 |
| 1,3,5-Trimethylbenzene | 1 | 5 | < 1.0 |
| Vinyl chloride | 2 | 10 | < 2.0 |
| o-Xylene | 1 | 5 | < 1.0 |
| m & p-Xylene | 1 | 10 | < 1.0 |
| **Surrogates** | | **Concentration of Surrogate (ug/Kg)** | **Amount Recovered** |
| Dibromofluoromethane | | 50 | 100 % |
| 1,2-Dichloroethane-d4 | | 50 | 109 % |
| Toluene-d8 | | 50 | 109 % |
| 4-Bromofluorobenzene | | 50 | 110 % |

SDL -Sample detection limit,SRL- Sample reporting limit

04287

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S70317-30

Lab Name: US ARMY CORPS OF ENGINEERS SWD LAB Contract:

Project No.: Site: Location: Group:

Matrix: (soil/water) SOIL Lab Sample ID: 317-30

Sample wt/vol: 5.6 (g/mL) G Lab File ID: 317-30.D

Level: (low/med) Date Received:

% Moisture: not dec. Date Analyzed: 7/11/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/Kg

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
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| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

**U.S. ARMY CORPS OF ENGINEERS**
**Southwestern Division Laboratory**
**Environmental Services Section**
**4815 Cass Street**
**Dallas, Texas 75235**
**214/905-9130**

# CASE NARRATIVE

Five water samples, one travel blank, one equipment blank, eighteen soil samples, two quality assurance soil samples, and three quality assurance water samples arrived at Southwestern Division Laboratory on 03 of July 1997 from former Webb AFB - Laredo TX. The samples arrived hand carried in fair condition with complete chains of custody. No custody seals were placed on the coolers. The samples were distributed for analysis as shown in the following table:

| LABORATORIES | SAMPLE TYPES |
|---|---|
| SWD | QA for sample S70317-2, S70317-4, and S70317-8: volatiles.<br>QA for sample S70317-23: semi-volatiles.<br>QA for sample S70317-30: volatiles and metals. |
| Environmental Chemical Corporation | QA for sample S70317-30: metals. |
| Intertek Testing Services | Field and QC for samples S70317-1 to S70317-29: volatiles, herbicides, pesticides, semi-volatiles, and metals. |

The above laboratories are Corps of Engineers' validated laboratories. The computerized data from Intertek Testing Services in Intertek Testing Services' standard deliverable format. The computerized data from Environmental Chemical Corporation in Environmental Chemical Corporation's standard deliverable format.

The data package from Southwestern Division Laboratory was received complete with all required internal quality control information. All of the analyses were performed using specified methods within proper holding times. Sample S70315-30 was analyzed by method of standard additions for antimony, arsenic, selenium, and thallium. The majority of all the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exceptions:

-For volatiles: in batches 970711S1 and 970708W1; an LCS and LCSD were prepared instead of an MS and MSD.

In batch 970708W1; the LCS/LCSD RPD for 1,2-dibromo-3-chloropropane was outside of quality control limits.

-For metals: in batch 7-104S; the sample duplicate RPD for thallium and antimony were outside of quality control limits.

In batch 7-108S; the MS and MS/MSD RPD for arsenic and selenium were outside of quality control limits due to a non-homogeneous QC sample.

In batch 7-104S; the MS/MSD RPD for antimony and thallium were outside of quality control limits due to a non-homogeneous QC sample.

-For semi-volatiles: in batch 970714S34; an LCS and LCSD were prepared instead of an MS and MSD.

In batch 970714S34; the LCS/LCSD RPD for pentachlorophenol was outside of quality control limits.

All method blanks were free of contamination.

The data package from Environmental Chemical Corporation was received complete with all required internal quality control information. All of the analyses were performed using specified methods within proper holding times. The majority of all the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exception:

-For metals: in batch DIGSP728; the MS, MSD, and MS/MSD RPD for antimony, thallium, and manganese were outside of quality control limits.

All method blanks were free of contamination.

The data package from Intertek Testing Services was received incomplete with all required internal quality control information. The zinc was not analyzed for sample S70317-29 due to a tracking error. The herbicides and semi-volatiles were not analyzed for sample S70317-10 due to a tracking error by Intertek Testing Services. The majority of all of the analyses were performed using specified methods within proper holding times. Samples S70317-6, S70317-10 and S70317-13 were outside of the holding time for pesticides due to a tracking error. Sample S70317-6 was outside of the holding time for semi-volatiles due to a tracking error. Samples S70317-6, S70317-11 to S70317-29 were outside of the holding time for herbicides. The method blank was contaminated during the first analysis. The re-extraction was done outside of the holding time. The herbicides were analyzed by method 8151 and not the requested 8150 method. The results are comparable. The lead for the water samples were analyzed by method 6010 and not the requested 7421 method. The results are comparable. The equipment blank; sample S70317-10, contained 0.60 mg/L of calcium, 1.5 mg/L of sodium, and 26.5 mg/L of zinc. The majority of all of the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exceptions:

-For metals: in batch AC159-33; the MS, MSD, and MS/MSD RPD for aluminum, iron, calcium, potassium, and magnesium were outside of quality control limits due to a high analyte in the QC sample.

Samples S70317-5 to S70317-7; a dilution was used for selenium due to matrix interference. The results were below the detection limits.

Samples S70317-17 to S70317-19; a dilution was used for due to matrix interference. The results were below the detection limits.

In batch AC159-46F; the MS, MSD, and MS/MSD RPD for arsenic was outside of quality control limits due to matrix interference.

In batches AC159-25 and AC159-26; the MS, MSD, and MS/MSD RPD for mercury were outside of quality control limits due to matrix interference.

In batch AC159-33; the MS, MSD, and MS/MSD RPD for antimony was outside of quality control limits due to matrix interference.

In batch AC159-43; the MS, MSD, and MS/MSD RPD for iron and sodium were outside of quality control limits due to a high analyte in the QC sample.

-For pesticides: in batch AC141-92; an BS and BSD were prepared instead of an MS and MSD.

Samples S70317-6 and S70317-14; one surrogate was outside of quality control limits.

-For herbicides: in batch AC142-18A; an BS and BSD were prepared instead of an MS and MSD.

-For semi-volatiles: in batch AC142-15; the MSD and MS/MSD RPD for 4-nitrophenol were outside of quality control limits.

In batch AC141-86; an BS and BSD were prepared instead of an MS and MSD.

Sample S70317-18; two surrogates were outside of quality control limits.

Samples S70317-16, S70317-18, and S70317-21; low surrogate recoveries were found on the first analysis. The samples were re-analyzed at a dilution.

All method blanks were free of contamination.

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Following is a synopsis of the quality assurance samples and their related QC and field samples:

**Customer Sample No.:** LF-W9, LF-W9-QA
**SWD Lab Sample No. :** S70317-1, S70317-2
**Date of Sampling for Field Sample:** 30 June 1997
**Date of Sampling for QA Sample :** 30 June 1997

| Parameter | Primary Method | Field | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|
| VOA | 8260 | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 8260A | ug/L | Agree |

Following is a synopsis of the quality assurance samples and their related QC and field samples:

**Customer Sample No.:** LF-W13, LF-W13-QA
**SWD Lab Sample No. :** S70317-3, S70317-4
**Date of Sampling for Field Sample:** 30 June 1997
**Date of Sampling for QA Sample :** 30 June 1997

| Parameter | Primary Method | Field | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|
| VOA | 8260 | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 8260A | ug/L | Agree |

Following is a synopsis of the quality assurance samples and their related QC and field samples:

**Customer Sample No.:** LF-W24, LF-W24-QA
**SWD Lab Sample No. :** S70317-7, S70317-8
**Date of Sampling for Field Sample:** 30 June 1997
**Date of Sampling for QA Sample :** 30 June 1997

| Parameter | Primary Method | Field | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|
| VOA | 8260 | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 8260A | ug/L | Agree |

Following is a synopsis of the quality assurance samples and their related QC and field samples:

**Customer Sample No.:** LF-SB35(5.0), LF-SB35(5.0)-QA
**SWD Lab Sample No. :** S70317-21, S70317-23
**Date of Sampling for Field Sample:** 01 July 1997
**Date of Sampling for QA Sample :** 01 July 1997

| Parameter | Primary Method | Field | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|
| SVOA | 8270B | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 8270B | mg/Kg | Agree |

Following is a synopsis of the quality assurance samples and their related QC and field samples:

**Customer Sample No.:** LF-SB50(8.0), LF-SB50(8.0)-QA
**SWD Lab Sample No. :** S70317-29, S70315-30
**Date of Sampling for Field Sample:** 01 July 1997
**Date of Sampling for QA Sample :** 01 July 1997

| Parameter | Primary Method | Field | | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|---|
| Metals: | | | | | | | |
| Aluminum | 6010A | 7920 | | 8340 | 6010A | mg/Kg | Agree |
| Antimony | 6010A | <6.0 | | 0.2J** | 7041 | mg/Kg | Agree |
| Arsenic | 7060 | 2.20 | | 4.8** | 7060 | mg/Kg | Agree |
| Barium | 6010A | 55.7 | | 52.3 | 6010A | mg/Kg | Agree |
| Beryllium | 6010A | 0.48 | | 0.52 | 6010A | mg/Kg | Agree |
| Cadmium | 6010A | <0.60 | | <1.2 | 6010A | mg/Kg | Agree |
| Cobalt | 6010A | 5.0 | | 8.9 | 6010A | mg/Kg | Agree |
| Calcium | 6010A | 10500 | | 3080 | 6010A | mg/Kg | Agree |
| Chromium | 6010A | 13.7 | | 7.9 | 6010A | mg/Kg | Agree |
| Copper | 6010A | 4.15 | | 4.1 | 6010A | mg/Kg | Agree |
| Iron | 6010A | 11600 | | 18900 | 6010A | mg/Kg | Agree |
| Magnesium | 6010A | 2270 | | 2460 | 6010A | mg/Kg | Agree |
| Manganese | 6010A | 164 | | 272 | 6010A | mg/Kg | Agree |
| Nickel | 6010A | 11.5 | | 11.2 | 6010A | mg/Kg | Agree |
| Tin | 6010A | 1.8 | | 22.3 | 6010A | mg/Kg | Disag |
| Potassium | 6010A | 1600 | | 1700 | 6010A | mg/Kg | Agree |
| Lead | 6010A | 8.40 | | 13.1 | 7421 | mg/Kg | Agree |
| Mercury | 7471 | <0.143 | | 0.008J | 7471 | mg/Kg | Agree |
| Selenium | 7740 | <0.60 | | 0.70** | 7740 | mg/Kg | Agree |
| Silver | 6010A | <0.60 | | <1.2 | 6010A | mg/Kg | Agree |
| Sodium | 6010A | 3230 | | 4100 | 6010A | mg/Kg | Agree |
| Thallium | 6010A | <1.19 | | 0.2J** | 7841 | mg/Kg | Agree |
| Vanadium | 6010A | 15.8 | | 16.8 | 6010A | mg/Kg | Agree |
| Zinc | 6010A | -- | | 33.2 | 6010A | mg/Kg | Agree |
| VOA | 8260 | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 0 HITs<br>0 TICs | 8260A | ug/Kg | Agree |

** Analyzed by method of standard additions.
-- Data not available.

Confirmatory Columns (Col. 1/Col. 2 RPD) SW-846 Method 8081 for pesticides and PCBs requires that analytes detected on the primary analytical column (Column 1) also be confirmed on a secondary column (Column 2). The analyte presence is confirmed on the secondary column if it appears within its prescribed retention time window. The analyte concentration is confirmed if the relative percent deviation (RPD) between the primary and confirmatory columns is ≤ 40%.

Method Detection Limit (MDL) The MDL is the minimum concentration of a substance that can be measured within a given matrix and reported at the 99% confidence level that the analyte concentration is greater than zero (per 40 CFR 136 App. B). The MDL is obtained by seven replicate analyses of a matrix at an analyte concentration level which is two to five times the estimated MDL. The MDL is defined as 3.14
times the standard deviation of the replicate sample results. Because of the high uncertainty at low concentrations, MDLs are expressed to only one significant figure. Analytical results which indicate no detection of analyte are expressed with the less than (<) qualifier followed by the MDL (e.g., < 2 mg/L)

Method Quantitation Limit (MQL) The MQL is defined as ten times the standard deviation determined from the MDL study (approximately 3.18 times the MDL).

Laboratory Reporting Limit (LRL) The LRL is a reporting limit which may be based on a project-specific reporting limit, a regulatory action level, or the laboratory's MDL. In the absence of project-specific requirements, the LRL is set at approximately three to ten times the MDL (at or slightly above the MQL). Typically, the LRL defines the concentration of the lowest standard used during calibration; in any case, the LRL should never be lower than the lowest calibration standard. It is impractical to exactly match the concentrations of multi-analyte standard solutions (e.g., VOAs, SVOAs, pesticides, ICP metals) to the calculated LRLs for each individual analyte. Actual LRLs, therefore, are sometimes defined by the concentration of the lowest calibration standard (although they are never less than the calculated LRL). Analytical values which are greater than the MDL but less than the LRL are expressed with the qualifier "J", indicating that they are only estimated values.

Sample Detection Limit (SDL) The Sample Detection Limit (SDL) is the MDL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal MDL (i.e., moisture content of a soil or sediment).

Sample Quantitation Limit (SQL) The Sample Quantitation Limit (SQL) is the MQL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal MQL (i.e., moisture content of a soil or sediment).

Sample Reporting Limit (SRL) The Sample Reporting Limit (SRL) is the LRL adjusted for the size of the sample aliquot analyzed, any
dilution/concentration factors unique to the analysis of a particular sample, and any allowances made for the sample matrix which might elevate the normal LRL (i.e., moisture content of a soil or sediment).

**SWDL Analytical Result Qualifiers:**

< Indicates that the analytical result is **less than** the following value, e.g., "< 2 mg/L" means that the sample contained less than 2 mg/L of the analyte. The **less than** symbol is typically associated with detection limit values.

> Indicates that the analytical result is **greater than** the following value, e.g., "> 2000 µg/L" means that the sample contained more than 2000 µg/L of the analyte. The **greater than** symbol is typically associated with analytical values which greatly exceeded the upper calibration limit of the analysis.

**J** Indicates that the result is an **estimated value**, e.g., "J 23 mg/Kg" means that the sample contained approximately 23 mg/Kg of the analyte. The "J" flag indicates that there is a 99% confidence that the analyte is present (i.e., above the detection limit), but that the actual quantitated value has a higher degree of uncertainty than may be implied based upon the significant figures used in the result. In the example above, the "J" flag indicates that the uncertainty in the result is greater than the ±1 mg/Kg that the significant figures would imply. The "J" flag is applied to values which lie between the detection limit and the reporting limit.

**B** Indicates that the analyte was also found in the method blank.

**E** Indicates that the result is an estimated value because it **exceeded the upper calibration limit** of the test, e.g., "E 4000 µg/Kg" indicates that the sample contained approximately 4000 µg/Kg of the analyte.

**UC** Indicates that the presence of the analyte was **unconfirmed** by a secondary analysis. This may mean that a secondary analysis was not performed, or that a secondary analysis failed to detect the analyte, or that the analyte was detected with a secondary analysis, but failed to reproduce the quantitated result to within ± 35% of the original value.

**HT** Indicates that the analysis was not performed within a required maximum **holding time**. This may mean that the maximum holding time prior to extraction or digestion was exceeded, or that the maximum holding time prior to analysis was exceeded, or both.

**MSA** Indicates that the analysis was performed using the **method of standard additions**. Usually this applies to samples where a preliminary analysis reveals the presence of a matrix effect which interferes with the accurate analysis of the sample (i.e., a "matrix interference"). This flag is typically seen in metals analyses performed via graphite furnace atomic absorption spectrophotometry (GFAA).

**MI** Indicates that the result is missing or is an estimated value because the analyst noted the presence of a **matrix interference** which interfered with the accurate analysis of the sample.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-1
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-1 LF-W9
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707087002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8277-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8277-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 117 % |
| 1,2-Dichloroethane-d4 (SS) | | 103 % |
| Dibromofluoromethane (SS) | | 101 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-1
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-1 LF-W9
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707087002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB, Laredo, TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-2
Sample ID: LF-W9 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| Acetone | 6.0 | 20 | < 6.0 |
| Benzene | 0.1 | 1 | < 0.1 |
| Bromobenzene | 0.3 | 1 | < 0.3 |
| Bromochloromethane | 0.4 | 2 | < 0.4 |
| Bromodichloromethane | 0.2 | 1 | < 0.2 |
| Bromoform | 0.3 | 2 | < 0.3 |
| Bromomethane | 0.4 | 2 | < 0.4 |
| 2-Butanone | 4.0 | 20 | < 4.0 |
| n-Butylbenzene | 0.2 | 1 | < 0.2 |
| sec- Butylbenzene | 0.2 | 1 | < 0.2 |
| tert-Butylbenzene | 0.2 | 1 | < 0.2 |
| Carbon disulfide | 0.4 | 2 | < 0.4 |
| Carbon tetrachloride | 0.2 | 1 | < 0.2 |
| Chlorobenzene | 0.2 | 1 | < 0.2 |
| Chloroethane | 0.5 | 2 | < 0.5 |
| Chloroform | 0.2 | 1 | < 0.2 |
| Chloromethane | 0.4 | 2 | < 0.4 |
| 2-Chlorotoluene | 0.2 | 1 | < 0.2 |
| 4-Chlorotoluene | 0.2 | 1 | < 0.2 |
| Dibromochloromethane | 0.4 | 2 | < 0.4 |
| 1,2-Dibromo-3-chloropropane | 2.0 | 5 | < 2.0 |
| 1,2-Dibromoethane | 0.3 | 1 | < 0.3 |
| Dibromomethane | 0.3 | 1 | < 0.3 |
| 1,2-Dichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,3-Dichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,4-Dichlorobenzene | 0.2 | 1 | < 0.2 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB,Laredo,TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-2
Sample ID: LF-W9 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| Dichlorodifluoromethane | 0.4 | 2 | < 0.4 |
| 1,1-Dichloroethane | 0.2 | 1 | < 0.2 |
| 1,2-Dichloroethane | 0.3 | 1 | < 0.3 |
| 1,1-Dichloroethene | 0.4 | 2 | < 0.4 |
| cis-1,2-Dichloroethene | 0.3 | 2 | < 0.3 |
| trans-1,2-Dichloroethene | 0.3 | 1 | < 0.3 |
| 1,2-Dichloropropane | 0.2 | 1 | < 0.2 |
| 1,3-Dichloropropane | 0.4 | 2 | < 0.4 |
| 2,2-Dichloropropane | 0.3 | 1 | < 0.3 |
| 1,1-Dichloropropene | 0.2 | 1 | < 0.2 |
| Ethylbenzene | 0.2 | 1 | < 0.2 |
| Hexachlorobutadiene | 0.3 | 1 | < 0.3 |
| 2-Hexanone | 4.0 | 20 | < 4.0 |
| Isopropylbenzene | 0.2 | 1 | < 0.2 |
| p-Isopropyltoluene | 0.2 | 1 | < 0.2 |
| Methylene chloride | 0.4 | 2 | < 0.4 |
| 4-Methyl-2-pentanone | 4.0 | 20 | < 4.0 |
| Naphthalene | 0.3 | 1 | < 0.3 |
| n-Propylbenzene | 0.2 | 1 | < 0.2 |
| Styrene | 0.2 | 1 | < 0.2 |
| 1,1,1,2-Tetrachloroethane | 0.2 | 1 | < 0.2 |
| 1,1,2,2-Tetrachloroethane | 0.3 | 1 | < 0.3 |
| Tetrachloroethene | 0.2 | 1 | < 0.2 |
| Toluene | 0.2 | 1 | < 0.2 |
| 1,2,3-Trichlorobenzene | 0.3 | 1 | < 0.3 |
| 1,2,4-Trichlorobenzene | 0.2 | 1 | < 0.2 |

04305

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB,Laredo,TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-2
Sample ID: LF-W9 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| 1,1,1-Trichloroethane | 0.2 | 1 | < 0.2 |
| 1,1,2-Trichloroethane | 0.4 | 2 | < 0.4 |
| Trichloroethene | 0.2 | 1 | < 0.2 |
| Trichlorofluoromethane | 0.3 | 2 | < 0.3 |
| 1,2,3-Trichloropropane | 0.3 | 1 | < 0.3 |
| 1,2,4-Trimethylbenzene | 0.2 | 1 | < 0.2 |
| 1,3,5-Trimethylbenzene | 0.2 | 1 | < 0.2 |
| Vinyl chloride | 0.2 | 2 | < 0.2 |
| o-Xylene | 0.3 | 1 | < 0.3 |
| m & p-Xylene | 0.5 | 2 | < 0.5 |

| Surrogates | Concentration of Surrogate (ug/l) | Amount Recovered |
|---|---|---|
| Dibromofluoromethane | 10 | 93 % |
| 1,2-Dichloroethane-d4 | 10 | 100 % |
| Toluene-d8 | 10 | 100 % |
| 4-Bromofluorobenzene | 10 | 104 % |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S70317-2

Lab Name: US ARMY CORPS OF ENGINEERS SWD LAB Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 317-2

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 317-2.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 7/8/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-2
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-3 LF-W13
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 8-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707087002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8277-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8277-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 119 % |
| 1,2-Dichloroethane-d4 (SS) | | 103 % |
| Dibromofluoromethane (SS) | | 103 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-2
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-3 LF-W13
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707087002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB,Laredo,TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-4
Sample ID: LF-W13 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| Acetone | 6.0 | 20 | < 6.0 |
| Benzene | 0.1 | 1 | < 0.1 |
| Bromobenzene | 0.3 | 1 | < 0.3 |
| Bromochloromethane | 0.4 | 2 | < 0.4 |
| Bromodichloromethane | 0.2 | 1 | < 0.2 |
| Bromoform | 0.3 | 2 | < 0.3 |
| Bromomethane | 0.4 | 2 | < 0.4 |
| 2-Butanone | 4.0 | 20 | < 4.0 |
| n-Butylbenzene | 0.2 | 1 | < 0.2 |
| sec- Butylbenzene | 0.2 | 1 | < 0.2 |
| tert-Butylbenzene | 0.2 | 1 | < 0.2 |
| Carbon disulfide | 0.4 | 2 | < 0.4 |
| Carbon tetrachloride | 0.2 | 1 | < 0.2 |
| Chlorobenzene | 0.2 | 1 | < 0.2 |
| Chloroethane | 0.5 | 2 | < 0.5 |
| Chloroform | 0.2 | 1 | < 0.2 |
| Chloromethane | 0.4 | 2 | < 0.4 |
| 2-Chlorotoluene | 0.2 | 1 | < 0.2 |
| 4-Chlorotoluene | 0.2 | 1 | < 0.2 |
| Dibromochloromethane | 0.4 | 2 | < 0.4 |
| 1,2-Dibromo-3-chloropropane | 2.0 | 5 | < 2.0 |
| 1,2-Dibromoethane | 0.3 | 1 | < 0.3 |
| Dibromomethane | 0.3 | 1 | < 0.3 |
| 1,2-Dichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,3-Dichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,4-Dichlorobenzene | 0.2 | 1 | < 0.2 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB,Laredo,TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-4
Sample ID: LF-W13 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| Dichlorodifluoromethane | 0.4 | 2 | < 0.4 |
| 1,1-Dichloroethane | 0.2 | 1 | < 0.2 |
| 1,2-Dichloroethane | 0.3 | 1 | < 0.3 |
| 1,1-Dichloroethene | 0.4 | 2 | < 0.4 |
| cis-1,2-Dichloroethene | 0.3 | 2 | < 0.3 |
| trans-1,2-Dichloroethene | 0.3 | 1 | < 0.3 |
| 1,2-Dichloropropane | 0.2 | 1 | < 0.2 |
| 1,3-Dichloropropane | 0.4 | 2 | < 0.4 |
| 2,2-Dichloropropane | 0.3 | 1 | < 0.3 |
| 1,1-Dichloropropene | 0.2 | 1 | < 0.2 |
| Ethylbenzene | 0.2 | 1 | < 0.2 |
| Hexachlorobutadiene | 0.3 | 1 | < 0.3 |
| 2-Hexanone | 4.0 | 20 | < 4.0 |
| Isopropylbenzene | 0.2 | 1 | < 0.2 |
| p-Isopropyltoluene | 0.2 | 1 | < 0.2 |
| Methylene chloride | 0.4 | 2 | < 0.4 |
| 4-Methyl-2-pentanone | 4.0 | 20 | < 4.0 |
| Naphthalene | 0.3 | 1 | < 0.3 |
| n-Propylbenzene | 0.2 | 1 | < 0.2 |
| Styrene | 0.2 | 1 | < 0.2 |
| 1,1,1,2-Tetrachloroethane | 0.2 | 1 | < 0.2 |
| 1,1,2,2-Tetrachloroethane | 0.3 | 1 | < 0.3 |
| Tetrachloroethene | 0.2 | 1 | < 0.2 |
| Toluene | 0.2 | 1 | < 0.2 |
| 1,2,3-Trichlorobenzene | 0.3 | 1 | < 0.3 |
| 1,2,4-Trichlorobenzene | 0.2 | 1 | < 0.2 |

04313

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB,Laredo,TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-4
Sample ID: LF-W13 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| 1,1,1-Trichloroethane | 0.2 | 1 | < 0.2 |
| 1,1,2-Trichloroethane | 0.4 | 2 | < 0.4 |
| Trichloroethene | 0.2 | 1 | < 0.2 |
| Trichlorofluoromethane | 0.3 | 2 | < 0.3 |
| 1,2,3-Trichloropropane | 0.3 | 1 | < 0.3 |
| 1,2,4-Trimethylbenzene | 0.2 | 1 | < 0.2 |
| 1,3,5-Trimethylbenzene | 0.2 | 1 | < 0.2 |
| Vinyl chloride | 0.2 | 2 | < 0.2 |
| o-Xylene | 0.3 | 1 | < 0.3 |
| m & p-Xylene | 0.5 | 2 | < 0.5 |

| Surrogates | Concentration of Surrogate (ug/l) | Amount Recovered |
|---|---|---|
| Dibromofluoromethane | 10 | 89 % |
| 1,2-Dichloroethane-d4 | 10 | 102 % |
| Toluene-d8 | 10 | 96 % |
| 4-Bromofluorobenzene | 10 | 103 % |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S70317-4

Lab Name: US ARMY CORPS OF ENGINEERS SWD LAB Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 317-4

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 317-4.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 7/8/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-3
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-5 LF-W20
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Aluminum | /1 | 0.100 mg/L | 16.0 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Arsenic | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-35F | | | |
| Barium | /1 | 0.0100 mg/L | 0.0447 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Beryllium | /1 | 0.003 mg/L | < 0.003 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

REPORT NUMBER : D97-8277-3 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 0.50 mg/L | 481 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Cadmium | /1 | 0.005 mg/L | 0.005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.0129 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Chromium | /1 | 0.005 mg/L | < 0.005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0189 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Iron | /1 | 0.100 mg/L | 15.7 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 8-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-25 | | | |



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8277-3 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 25 mg/L | 29 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Magnesium | /1 | 12.5 mg/L | 1360 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Manganese | /1 | 0.0100 mg/L | 1.89 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Sodium | /1 | 1000 mg/L | 10500 mg/L |
| Dilution Factor : 1000<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 21-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.0444 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Lead | /1 | 0.005 mg/L | < 0.005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

REPORT NUMBER : D97-8277-3 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.05 mg/L | < 0.05 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 11-JUL-1997 by AH<br>QC Batch No : AC159-35F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.0205 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Zinc | /1 | 0.020 mg/L | 0.097 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

Applicable results are reported on Dry Weight basis.



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Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-3
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-5 LF-W20
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707087002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8277-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8277-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 117 % |
| 1,2-Dichloroethane-d4 (SS) | | 106 % |
| Dibromofluoromethane (SS) | | 101 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-3
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-5 LF-W20
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707087002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-6 LF-W23
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Aluminum | /1 | 0.100 mg/L | 289 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Arsenic | /1 | 0.100 mg/L | 0.204 mg/L |
| Dilution Factor : 20<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-35F | | | |
| Barium | /1 | 0.0100 mg/L | 1.10 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Beryllium | /1 | 0.003 mg/L | 0.024 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

REPORT NUMBER : D97-8277-4 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 12.5 mg/L | 911 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Cadmium | /1 | 0.005 mg/L | 0.006 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.312 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Chromium | /1 | 0.005 mg/L | 0.232 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Copper | /1 | 0.0100 mg/L | 0.191 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Iron | /1 | 2.50 mg/L | 944 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 8-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-25 | | | |

REPORT NUMBER : D97-8277-4 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 25 mg/L | 127 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Magnesium | /1 | 12.5 mg/L | 890 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Manganese | /1 | 0.0100 mg/L | 5.11 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Sodium | /1 | 1000 mg/L | 9600 mg/L |
| Dilution Factor : 1000<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 21-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.293 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Lead | /1 | 0.005 mg/L | 0.453 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

REPORT NUMBER : D97-8277-4 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.05 mg/L | < 0.05 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 11-JUL-1997 by AH<br>QC Batch No : AC159-35F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.433 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Zinc | /1 | 0.020 mg/L | 2.53 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

Applicable results are reported on Dry Weight basis.



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# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-6 LF-W23
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : TAP
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC142-18A

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | 7.59 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

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REPORT NUMBER : D97-8277-4
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 70.7 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-6 LF-W23
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3510B
PREPARED BY : TDC
PREPARED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-92

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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REPORT NUMBER : D97-8277-4
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 34.4 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 98.0 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-6 LF-W23
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707087002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8277-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8277-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 106 % |
| Bromofluorobenzene (SS) | | 114 % |
| 1,2-Dichloroethane-d4 (SS) | | 107 % |
| Dibromofluoromethane (SS) | | 104 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-6 LF-W23
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707087002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-6 LF-W23
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : TAP
PREPARED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-86

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8277-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-8277-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2-Methylnaphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| Naphthalene | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 3-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Nitroaniline | 50.0 | µg/L | < | 50.0 | µg/L |
| Nitrobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodiphenylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| N-Nitrosodi-n-propylamine | 10.0 | µg/L | < | 10.0 | µg/L |
| Phenanthrene | 10.0 | µg/L | < | 10.0 | µg/L |
| Pyrene | 10.0 | µg/L | < | 10.0 | µg/L |
| 1,2,4-Trichlorobenzene | 10.0 | µg/L | < | 10.0 | µg/L |
| Benzoic acid | 50.0 | µg/L | < | 50.0 | µg/L |
| 4-Chloro-3-methylphenol | 20.0 | µg/L | < | 20.0 | µg/L |
| 2-Chlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4-Dimethylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2,4-Dinitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| 2-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Methylphenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2-Nitrophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 4-Nitrophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Pentachlorophenol | 50.0 | µg/L | < | 50.0 | µg/L |
| Phenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,5-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |
| 2,4,6-Trichlorophenol | 10.0 | µg/L | < | 10.0 | µg/L |

REPORT NUMBER : D97-8277-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 78.0 % |
| 2-Fluorobiphenyl (SS) | | 78.8 % |
| Terphenyl-d14 (SS) | | 45.2 % |
| Phenol-d6 (SS) | | 83.6 % |
| 2-Fluorophenol (SS) | | 76.5 % |
| 2,4,6-Tribromophenol (SS) | | 82.8 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-4
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-6 LF-W23
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-86

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Methylpentenol | 16.81 | ABN | 19 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-5
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-7 LF-W24
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Aluminum | /1 | 0.100 mg/L | 139 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Arsenic | /1 | 0.0500 mg/L | 0.0989 mg/L |
| Dilution Factor : 10<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-35F | | | |
| Barium | /1 | 0.0100 mg/L | 0.541 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Beryllium | /1 | 0.003 mg/L | 0.013 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

REPORT NUMBER : D97-8277-5 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 0.50 mg/L | 415 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Cadmium | /1 | 0.005 mg/L | 0.006 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Cobalt | /1 | 0.0100 mg/L | 0.285 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Chromium | /1 | 0.005 mg/L | 0.105 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Copper | /1 | 0.0100 mg/L | 0.0684 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Iron | /1 | 2.50 mg/L | 595 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Mercury | /1 | 0.0002 mg/L | 0.0006 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 8-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-25 | | | |



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REPORT NUMBER : D97-8277-5 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 25 mg/L | 87 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Magnesium | /1 | 12.5 mg/L | 1840 mg/L |
| Dilution Factor : 25<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Manganese | /1 | 0.0100 mg/L | 3.85 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Sodium | /1 | 1000 mg/L | 14800 mg/L |
| Dilution Factor : 1000<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 21-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.254 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Lead | /1 | 0.005 mg/L | 0.144 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

REPORT NUMBER : D97-8277-5 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.25 mg/L | < 0.25 mg/L |
| Dilution Factor : 50<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 11-JUL-1997 by AH<br>QC Batch No : AC159-35F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Vanadium | /1 | 0.0100 mg/L | 0.259 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Zinc | /1 | 0.020 mg/L | 1.72 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-5
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-7 LF-W24
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707087002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

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REPORT NUMBER : D97-8277-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8277-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 117 % |
| 1,2-Dichloroethane-d4 (SS) | | 110 % |
| Dibromofluoromethane (SS) | | 102 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-5
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-7 LF-W24
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707087002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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04343

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-5
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-7 LF-W24
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3520B
PREPARED BY : TAP
PREPARED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC141-86

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 10.0 µg/L | < 10.0 µg/L |
| Acenaphthylene | 10.0 µg/L | < 10.0 µg/L |
| Anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(b)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(k)fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(g,h,i)perylene | 10.0 µg/L | < 10.0 µg/L |
| Benzo(a)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Benzyl alcohol | 20.0 µg/L | < 20.0 µg/L |
| Bis(2-chloroethoxy)methane | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroethyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-chloroisopropyl)ether | 10.0 µg/L | < 10.0 µg/L |
| Bis(2-ethylhexyl)phthalate | 10.0 µg/L | < 10.0 µg/L |
| 4-Bromophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8277-5 PAGE 2
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Carbazole | 10.0 µg/L | < 10.0 µg/L |
| 4-Chloroaniline | 20.0 µg/L | < 20.0 µg/L |
| 2-Chloronaphthalene | 10.0 µg/L | < 10.0 µg/L |
| 4-Chlorophenyl phenyl ether | 10.0 µg/L | < 10.0 µg/L |
| Chrysene | 10.0 µg/L | < 10.0 µg/L |
| Dibenz(a,h)anthracene | 10.0 µg/L | < 10.0 µg/L |
| Dibenzofuran | 10.0 µg/L | < 10.0 µg/L |
| Di-n-butylphthalate | 10.0 µg/L | < 10.0 µg/L |
| 1,2-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,3-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 1,4-Dichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| 3,3'-Dichlorobenzidine | 20.0 µg/L | < 20.0 µg/L |
| Diethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| Dimethyl phthalate | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| 2,6-Dinitrotoluene | 10.0 µg/L | < 10.0 µg/L |
| Di-n-octylphthalate | 10.0 µg/L | < 10.0 µg/L |
| Fluoranthene | 10.0 µg/L | < 10.0 µg/L |
| Fluorene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorobutadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachlorocyclopentadiene | 10.0 µg/L | < 10.0 µg/L |
| Hexachloroethane | 10.0 µg/L | < 10.0 µg/L |
| Indeno(1,2,3-cd)pyrene | 10.0 µg/L | < 10.0 µg/L |
| Isophorone | 10.0 µg/L | < 10.0 µg/L |



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REPORT NUMBER : D97-8277-5
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 10.0 µg/L | < 10.0 µg/L |
| Naphthalene | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 3-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| 4-Nitroaniline | 50.0 µg/L | < 50.0 µg/L |
| Nitrobenzene | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodiphenylamine | 10.0 µg/L | < 10.0 µg/L |
| N-Nitrosodi-n-propylamine | 10.0 µg/L | < 10.0 µg/L |
| Phenanthrene | 10.0 µg/L | < 10.0 µg/L |
| Pyrene | 10.0 µg/L | < 10.0 µg/L |
| 1,2,4-Trichlorobenzene | 10.0 µg/L | < 10.0 µg/L |
| Benzoic acid | 50.0 µg/L | < 50.0 µg/L |
| 4-Chloro-3-methylphenol | 20.0 µg/L | < 20.0 µg/L |
| 2-Chlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4-Dimethylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4,6-Dinitro-2-methylphenol | 50.0 µg/L | < 50.0 µg/L |
| 2,4-Dinitrophenol | 50.0 µg/L | < 50.0 µg/L |
| 2-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Methylphenol | 10.0 µg/L | < 10.0 µg/L |
| 2-Nitrophenol | 10.0 µg/L | < 10.0 µg/L |
| 4-Nitrophenol | 50.0 µg/L | < 50.0 µg/L |
| Pentachlorophenol | 50.0 µg/L | < 50.0 µg/L |
| Phenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,5-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |
| 2,4,6-Trichlorophenol | 10.0 µg/L | < 10.0 µg/L |

REPORT NUMBER : D97-8277-5
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 67.6 % |
| 2-Fluorobiphenyl (SS) | | 72.0 % |
| Terphenyl-d14 (SS) | | 33.8 % |
| Phenol-d6 (SS) | | 72.4 % |
| 2-Fluorophenol (SS) | | 63.6 % |
| 2,4,6-Tribromophenol (SS) | | 80.9 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-5
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-7 LF-W24
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC141-86

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| 1-Penten-3-ol, 2-methyl- | 16.81 | ABN | 18 ug/L |

Applicable results are reported on Dry Weight basis.

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US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB,Laredo,TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-8
Sample ID: LF-W24 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| Acetone | 6.0 | 20 | < 6.0 |
| Benzene | 0.1 | 1 | < 0.1 |
| Bromobenzene | 0.3 | 1 | < 0.3 |
| Bromochloromethane | 0.4 | 2 | < 0.4 |
| Bromodichloromethane | 0.2 | 1 | < 0.2 |
| Bromoform | 0.3 | 2 | < 0.3 |
| Bromomethane | 0.4 | 2 | < 0.4 |
| 2-Butanone | 4.0 | 20 | < 4.0 |
| n-Butylbenzene | 0.2 | 1 | < 0.2 |
| sec- Butylbenzene | 0.2 | 1 | < 0.2 |
| tert-Butylbenzene | 0.2 | 1 | < 0.2 |
| Carbon disulfide | 0.4 | 2 | < 0.4 |
| Carbon tetrachloride | 0.2 | 1 | < 0.2 |
| Chlorobenzene | 0.2 | 1 | < 0.2 |
| Chloroethane | 0.5 | 2 | < 0.5 |
| Chloroform | 0.2 | 1 | < 0.2 |
| Chloromethane | 0.4 | 2 | < 0.4 |
| 2-Chlorotoluene | 0.2 | 1 | < 0.2 |
| 4-Chlorotoluene | 0.2 | 1 | < 0.2 |
| Dibromochloromethane | 0.4 | 2 | < 0.4 |
| 1,2-Dibromo-3-chloropropane | 2.0 | 5 | < 2.0 |
| 1,2-Dibromoethane | 0.3 | 1 | < 0.3 |
| Dibromomethane | 0.3 | 1 | < 0.3 |
| 1,2-Dichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,3-Dichlorobenzene | 0.2 | 1 | < 0.2 |
| 1,4-Dichlorobenzene | 0.2 | 1 | < 0.2 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB,Laredo,TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-8
Sample ID: LF-W24 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| Dichlorodifluoromethane | 0.4 | 2 | < 0.4 |
| 1,1-Dichloroethane | 0.2 | 1 | < 0.2 |
| 1,2-Dichloroethane | 0.3 | 1 | < 0.3 |
| 1,1-Dichloroethene | 0.4 | 2 | < 0.4 |
| cis-1,2-Dichloroethene | 0.3 | 2 | < 0.3 |
| trans-1,2-Dichloroethene | 0.3 | 1 | < 0.3 |
| 1,2-Dichloropropane | 0.2 | 1 | < 0.2 |
| 1,3-Dichloropropane | 0.4 | 2 | < 0.4 |
| 2,2-Dichloropropane | 0.3 | 1 | < 0.3 |
| 1,1-Dichloropropene | 0.2 | 1 | < 0.2 |
| Ethylbenzene | 0.2 | 1 | < 0.2 |
| Hexachlorobutadiene | 0.3 | 1 | < 0.3 |
| 2-Hexanone | 4.0 | 20 | < 4.0 |
| Isopropylbenzene | 0.2 | 1 | < 0.2 |
| p-Isopropyltoluene | 0.2 | 1 | < 0.2 |
| Methylene chloride | 0.4 | 2 | < 0.4 |
| 4-Methyl-2-pentanone | 4.0 | 20 | < 4.0 |
| Naphthalene | 0.3 | 1 | < 0.3 |
| n-Propylbenzene | 0.2 | 1 | < 0.2 |
| Styrene | 0.2 | 1 | < 0.2 |
| 1,1,1,2-Tetrachloroethane | 0.2 | 1 | < 0.2 |
| 1,1,2,2-Tetrachloroethane | 0.3 | 1 | < 0.3 |
| Tetrachloroethene | 0.2 | 1 | < 0.2 |
| Toluene | 0.2 | 1 | < 0.2 |
| 1,2,3-Trichlorobenzene | 0.3 | 1 | < 0.3 |
| 1,2,4-Trichlorobenzene | 0.2 | 1 | < 0.2 |

US ARMY CORPS OF ENGINEERS
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4815 Cass Street
Dallas, TX-75235
214/905-9130

Project: Former Webb AFB,Laredo,TX
Date Sampled : 30 June 1997
Date Analyzed: 08 July 1997
Method No: 8260A
QC Batch No : 970708W1
Dilution Factor: 1

Date Reported : 22 July 1997
Date Received : 03 July 1997
SWD Lab No. : S70317-8
Sample ID: LF-W24 QA
Sample Matrix: Water
Analyst: JSN

| Analyte | MDL (µg/L) | LRL (µg/L) | Result (ug/l) |
|---|---|---|---|
| 1,1,1-Trichloroethane | 0.2 | 1 | < 0.2 |
| 1,1,2-Trichloroethane | 0.4 | 2 | < 0.4 |
| Trichloroethene | 0.2 | 1 | < 0.2 |
| Trichlorofluoromethane | 0.3 | 2 | < 0.3 |
| 1,2,3-Trichloropropane | 0.3 | 1 | < 0.3 |
| 1,2,4-Trimethylbenzene | 0.2 | 1 | < 0.2 |
| 1,3,5-Trimethylbenzene | 0.2 | 1 | < 0.2 |
| Vinyl chloride | 0.2 | 2 | < 0.2 |
| o-Xylene | 0.3 | 1 | < 0.3 |
| m & p-Xylene | 0.5 | 2 | < 0.5 |

| Surrogates | Concentration of Surrogate (ug/l) | Amount Recovered |
|---|---|---|
| Dibromofluoromethane | 10 | 90 % |
| 1,2-Dichloroethane-d4 | 10 | 101 % |
| Toluene-d8 | 10 | 97 % |
| 4-Bromofluorobenzene | 10 | 104 % |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
S70317-8

Lab Name: US ARMY CORPS OF ENGINEERS SWD LAB Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: 317-8

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: 317-8.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 7/8/97

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

| CAS Number | Compound Name | RT | Est. Conc. | Q |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |



04357

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-6
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-9 TB03
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707087002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8277-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



34359

REPORT NUMBER : D97-8277-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 119 % |
| 1,2-Dichloroethane-d4 (SS) | | 102 % |
| Dibromofluoromethane (SS) | | 98.2 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-6
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-9 TB03
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707087002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-7
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-10 LF-SB14(2.0) EB
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Aluminum | /1 | 0.100 mg/L | < 0.100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Arsenic | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-35F | | | |
| Barium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Beryllium | /1 | 0.003 mg/L | < 0.003 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

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REPORT NUMBER : D97-8277-7 PAGE 2

| TOTAL METALS | | | | |
|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS |
| Calcium | /1 | 0.50 mg/L | | 0.60 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | | |
| Cadmium | /1 | 0.005 mg/L | < | 0.005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | | |
| Cobalt | /1 | 0.0100 mg/L | < | 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | | |
| Chromium | /1 | 0.005 mg/L | < | 0.005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | | |
| Copper | /1 | 0.0100 mg/L | < | 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | | |
| Iron | /1 | 0.100 mg/L | < | 0.100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | | |
| Mercury | /1 | 0.0002 mg/L | < | 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 8-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-25 | | | | |



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REPORT NUMBER : D97-8277-7 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.0 mg/L | < 1.0 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Magnesium | /1 | 0.500 mg/L | < 0.500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Manganese | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Sodium | /1 | 1.0 mg/L | 1.5 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Nickel | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Lead | /1 | 0.005 mg/L | < 0.005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |

REPORT NUMBER : D97-8277-7 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.005 mg/L | < 0.005 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 11-JUL-1997 by AH<br>QC Batch No : AC159-35F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Vanadium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Zinc | /1 | 0.020 mg/L | < 0.020 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3015 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 14-JUL-1997 by MPE<br>QC Batch No : AC159-43 | | | |
| Zinc | /1 | 3.00 mg/Kg | 26.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-7
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-10 LF-SB14(2.0) EB
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3510B
PREPARED BY : TDC
PREPARED ON : 8-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC141-92

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

Intertek Testing Services NA Inc.
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Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8277-7
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 88.4 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 96.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-7
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-10 LF-SB14(2.0) EB
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707087002

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Benzene | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8277-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,2-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| Ethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | < 5.00 µg/L |
| Chloromethane | 5.00 µg/L | < 5.00 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |



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REPORT NUMBER : D97-8277-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| Toluene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichloroethene | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | < 5.00 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 107 % |
| Bromofluorobenzene (SS) | | 109 % |
| 1,2-Dichloroethane-d4 (SS) | | 104 % |
| Dibromofluoromethane (SS) | | 100 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-7
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70317-10 LF-SB14(2.0) EB
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 9-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707087002

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-11 LF-SB14(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.73 mg/Kg | < 0.73 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 14.7 mg/Kg | 11800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.733 mg/Kg | 3.45 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-46F | | | |
| Barium | /1 | 1.5 mg/Kg | 63.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.44 mg/Kg | 0.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-8 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 73 mg/Kg | 16500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.73 mg/Kg | < 0.73 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.5 mg/Kg | 4.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.7 mg/Kg | 10.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.47 mg/Kg | 6.15 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 14.7 mg/Kg | 13200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.176 mg/Kg | < 0.176 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-8 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 147 mg/Kg | 2620 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Magnesium | /1 | 73.3 mg/Kg | 2990 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Manganese | /1 | 1.5 mg/Kg | 167 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Sodium | /1 | 147 mg/Kg | 290 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Nickel | /1 | 1.5 mg/Kg | 10.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Lead | /1 | 0.73 mg/Kg | 9.91 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Antimony | /1 | 7.3 mg/Kg | < 7.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-8 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.73 mg/Kg | < 0.73 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.5 mg/Kg | 2.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.47 mg/Kg | < 1.47 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.5 mg/Kg | 20.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 4.40 mg/Kg | 39.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-11 LF-SB14(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| MISCELLANEOUS ANALYSES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 68.2 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154040I | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-11 LF-SB14(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 73.3 µg/Kg | < 73.3 µg/Kg |
| 2,4-DB | 73.3 µg/Kg | < 73.3 µg/Kg |
| 2,4,5-T | 7.33 µg/Kg | < 7.33 µg/Kg |
| 2,4,5-TP(Silvex) | 7.33 µg/Kg | < 7.33 µg/Kg |
| Dalapon | 293 µg/Kg | < 293 µg/Kg |
| Dicamba | 7.33 µg/Kg | < 7.33 µg/Kg |
| Dichlorprop | 73.3 µg/Kg | < 73.3 µg/Kg |
| Dinoseb | 29.3 µg/Kg | < 29.3 µg/Kg |
| MCPA | 29300 µg/Kg | < 29300 µg/Kg |
| MCPP | 29300 µg/Kg | < 29300 µg/Kg |



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REPORT NUMBER : D97-8277-8
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 84.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-11 LF-SB14(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 660
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.89 µg/Kg | < 3.89 µg/Kg |
| Alpha-BHC | 2.92 µg/Kg | < 2.92 µg/Kg |
| Beta-BHC | 5.83 µg/Kg | < 5.83 µg/Kg |
| Delta-BHC | 8.75 µg/Kg | < 8.75 µg/Kg |
| Gamma-BHC(Lindane) | 3.89 µg/Kg | < 3.89 µg/Kg |
| Chlordane | 13.6 µg/Kg | < 13.6 µg/Kg |
| 4,4'-DDD | 10.7 µg/Kg | < 10.7 µg/Kg |
| 4,4'-DDE | 3.89 µg/Kg | < 3.89 µg/Kg |
| 4,4'-DDT | 11.7 µg/Kg | < 11.7 µg/Kg |
| Dieldrin | 1.94 µg/Kg | < 1.94 µg/Kg |
| Endosulfan I | 13.6 µg/Kg | < 13.6 µg/Kg |
| Endosulfan II | 3.89 µg/Kg | < 3.89 µg/Kg |
| Endosulfan Sulfate | 64.2 µg/Kg | < 64.2 µg/Kg |
| Endrin | 5.83 µg/Kg | < 5.83 µg/Kg |

REPORT NUMBER : D97-8277-8
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 22.4 µg/Kg | < 22.4 µg/Kg |
| Heptachlor | 2.92 µg/Kg | < 2.92 µg/Kg |
| Heptachlor Epoxide | 80.7 µg/Kg | < 80.7 µg/Kg |
| Methoxychlor | 171 µg/Kg | < 171 µg/Kg |
| Toxaphene | 233 µg/Kg | < 233 µg/Kg |
| Aroclor-1016 | 63.2 µg/Kg | < 63.2 µg/Kg |
| Aroclor-1221 | 63.2 µg/Kg | < 63.2 µg/Kg |
| Aroclor-1232 | 63.2 µg/Kg | < 63.2 µg/Kg |
| Aroclor-1242 | 63.2 µg/Kg | < 63.2 µg/Kg |
| Aroclor-1248 | 63.2 µg/Kg | < 63.2 µg/Kg |
| Aroclor-1254 | 63.2 µg/Kg | < 63.2 µg/Kg |
| Aroclor-1260 | 63.2 µg/Kg | < 63.2 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 82.8 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 74.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-11 LF-SB14(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 29.3 µg/Kg | < 29.3 µg/Kg |
| Acrylonitrile | 7.33 µg/Kg | < 7.33 µg/Kg |
| Benzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| Bromobenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| Bromochloromethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| Bromodichloromethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| Bromoform | 7.33 µg/Kg | < 7.33 µg/Kg |
| Carbon disulfide | 7.33 µg/Kg | < 7.33 µg/Kg |
| Carbon tetrachloride | 7.33 µg/Kg | < 7.33 µg/Kg |
| Chlorobenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| Chloroethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| Chloroform | 7.33 µg/Kg | < 7.33 µg/Kg |
| 2-Chlorotoluene | 7.33 µg/Kg | < 7.33 µg/kg |
| 4-Chlorotoluene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 2-Chloroethylvinyl ether | 14.7 µg/Kg | < 14.7 µg/Kg |
| Dibromochloromethane | 7.33 µg/Kg | < 7.33 µg/Kg |

REPORT NUMBER : D97-8277-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 36.7 µg/Kg | < 36.7 µg/Kg |
| 1,2-Dibromoethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,2-Dichlorobenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,3-Dichlorobenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,4-Dichlorobenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| trans-1,4-Dichloro-2-butene | 147 µg/Kg | < 147 µg/Kg |
| 1,1-Dichloroethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,2-Dichloroethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,1-Dichloroethene | 7.33 µg/Kg | < 7.33 µg/Kg |
| cis-1,2-Dichloroethene | 7.33 µg/Kg | < 7.33 µg/Kg |
| trans-1,2-Dichloroethene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,2-Dichloropropane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 2,2-Dichloropropane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,1-Dichloropropene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,3-Dichloropropane | 7.33 µg/Kg | < 7.33 µg/Kg |
| cis-1,3-Dichloropropene | 7.33 µg/Kg | < 7.33 µg/Kg |
| trans-1,3-Dichloropropene | 7.33 µg/Kg | < 7.33 µg/Kg |
| Ethylbenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 2-Hexanone | 73.3 µg/Kg | < 73.3 µg/Kg |
| Bromomethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| Chloromethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| Dibromomethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 2-Butanone | 147 µg/Kg | < 147 µg/Kg |
| Iodomethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| Methylene chloride | 7.33 µg/Kg | < 7.33 µg/Kg |
| 4-Methyl-2-pentanone | 147 µg/Kg | < 147 µg/Kg |

REPORT NUMBER : D97-8277-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| Tetrachloroethene | 7.33 µg/Kg | < 7.33 µg/Kg |
| Toluene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,2,3-Trichlorobenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,2,4-Trichlorobenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,1,1-Trichloroethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,1,2-Trichloroethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| Trichloroethene | 7.33 µg/Kg | < 7.33 µg/Kg |
| Trichlorofluoromethane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,2,3-Trichloropropane | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,3,5-Trimethylbenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| 1,2,4-Trimethylbenzene | 7.33 µg/Kg | < 7.33 µg/Kg |
| Vinyl acetate | 73.3 µg/Kg | < 73.3 µg/Kg |
| Vinyl chloride | 2.93 µg/Kg | < 2.93 µg/Kg |
| m,p-Xylene | 7.33 µg/Kg | < 7.33 µg/Kg |
| o-Xylene | 7.33 µg/Kg | < 7.33 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 95.2 % |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 90.2 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-11 LF-SB14(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 15 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-11 LF-SB14(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Acenaphthylene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Anthracene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Benzo(a)anthracene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Benzo(b)fluoranthene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Benzo(k)fluoranthene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Benzo(g,h,i)perylene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Benzo(a)pyrene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Benzyl alcohol | 0.953 mg/Kg | < 0.953 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.484 mg/Kg | < 0.484 mg/Kg |
| Bis(2-chloroethyl)ether | 0.484 mg/Kg | < 0.484 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.484 mg/Kg | < 0.484 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.484 mg/Kg | < 0.484 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.484 mg/Kg | < 0.484 mg/Kg |



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REPORT NUMBER : D97-8277-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.484 mg/Kg | < 0.484 mg/Kg |
| Carbazole | 0.484 mg/Kg | < 0.484 mg/Kg |
| 4-Chloroaniline | 0.484 mg/Kg | < 0.484 mg/Kg |
| 2-Chloronaphthalene | 0.484 mg/Kg | < 0.484 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.484 mg/Kg | < 0.484 mg/Kg |
| Chrysene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Dibenz(a,h)anthracene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Dibenzofuran | 0.484 mg/Kg | < 0.484 mg/Kg |
| Di-n-butylphthalate | 0.484 mg/Kg | < 0.484 mg/Kg |
| 1,2-Dichlorobenzene | 0.484 mg/Kg | < 0.484 mg/Kg |
| 1,3-Dichlorobenzene | 0.484 mg/Kg | < 0.484 mg/Kg |
| 1,4-Dichlorobenzene | 0.484 mg/Kg | < 0.484 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.484 mg/Kg | < 0.484 mg/Kg |
| Diethyl phthalate | 0.484 mg/Kg | < 0.484 mg/Kg |
| Dimethyl phthalate | 0.484 mg/Kg | < 0.484 mg/Kg |
| 2,4-Dinitrotoluene | 0.484 mg/Kg | < 0.484 mg/Kg |
| 2,6-Dinitrotoluene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Di-n-octylphthalate | 0.484 mg/Kg | < 0.484 mg/Kg |
| Fluoranthene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Fluorene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Hexachlorobenzene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Hexachlorobutadiene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Hexachlorocyclopentadiene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Hexachloroethane | 0.484 mg/Kg | < 0.484 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Isophorone | 0.484 mg/Kg | < 0.484 mg/Kg |

REPORT NUMBER : D97-8277-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Naphthalene | 0.484 mg/Kg | < 0.484 mg/Kg |
| 2-Nitroaniline | 2.42 mg/Kg | < 2.42 mg/Kg |
| 3-Nitroaniline | 2.42 mg/Kg | < 2.42 mg/Kg |
| 4-Nitroaniline | 2.42 mg/Kg | < 2.42 mg/Kg |
| Nitrobenzene | 0.484 mg/Kg | < 0.484 mg/Kg |
| N-Nitrosodiphenylamine | 0.484 mg/Kg | < 0.484 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.484 mg/Kg | < 0.484 mg/Kg |
| Phenanthrene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Pyrene | 0.484 mg/Kg | < 0.484 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.484 mg/Kg | < 0.484 mg/Kg |
| Benzoic acid | 1.17 mg/Kg | < 1.17 mg/Kg |
| 4-Chloro-3-methylphenol | 0.953 mg/Kg | < 0.953 mg/Kg |
| 2-Chlorophenol | 0.484 mg/Kg | < 0.484 mg/Kg |
| 2,4-Dichlorophenol | 0.484 mg/Kg | < 0.484 mg/Kg |
| 2,4-Dimethylphenol | 0.484 mg/Kg | < 0.484 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.42 mg/Kg | < 2.42 mg/Kg |
| 2,4-Dinitrophenol | 2.42 mg/Kg | < 2.42 mg/Kg |
| 2-Methylphenol | 0.484 mg/Kg | < 0.484 mg/Kg |
| 4-Methylphenol | 0.484 mg/Kg | < 0.484 mg/Kg |
| 2-Nitrophenol | 0.484 mg/Kg | < 0.484 mg/Kg |
| 4-Nitrophenol | 1.17 mg/Kg | < 1.17 mg/Kg |
| Pentachlorophenol | 2.42 mg/Kg | < 2.42 mg/Kg |
| Phenol | 0.484 mg/Kg | < 0.484 mg/Kg |
| 2,4,5-Trichlorophenol | 2.42 mg/Kg | < 2.42 mg/Kg |
| 2,4,6-Trichlorophenol | 0.484 mg/Kg | < 0.484 mg/Kg |

REPORT NUMBER : D97-8277-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 70.7 % |
| 2-Fluorobiphenyl (SS) | | 65.3 % |
| Terphenyl-d14 (SS) | | 67.1 % |
| Phenol-d6 (SS) | | 66.1 % |
| 2-Fluorophenol (SS) | | 64.9 % |
| 2,4,6-Tribromophenol (SS) | | 64.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-8
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-11 LF-SB14(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.48 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-12 LF-SB14(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.5 mg/Kg | 5210 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.577 mg/Kg | 1.64 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Barium | /1 | 1.2 mg/Kg | 1150 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.35 mg/Kg | < 0.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-9 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 1440 mg/Kg | 68800 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 3.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 4.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.15 mg/Kg | 2.80 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 11.5 mg/Kg | 7350 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.139 mg/Kg | < 0.139 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |

REPORT NUMBER : D97-8277-9 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 115 | mg/Kg | 1060 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 57.7 | mg/Kg | 2220 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.2 | mg/Kg | 111 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 115 | mg/Kg | 321 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.2 | mg/Kg | 5.3 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.58 | mg/Kg | 5.76 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 5.8 | mg/Kg | < 5.8 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-9 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.15 mg/Kg | < 1.15 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 17.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.46 mg/Kg | 18.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-12 LF-SB14(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 86.6 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154040I | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-12 LF-SB14(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 57.7 µg/Kg | < 57.7 µg/Kg |
| 2,4-DB | 57.7 µg/Kg | < 57.7 µg/Kg |
| 2,4,5-T | 5.77 µg/Kg | < 5.77 µg/Kg |
| 2,4,5-TP(Silvex) | 5.77 µg/Kg | < 5.77 µg/Kg |
| Dalapon | 231 µg/Kg | < 231 µg/Kg |
| Dicamba | 5.77 µg/Kg | < 5.77 µg/Kg |
| Dichlorprop | 57.7 µg/Kg | < 57.7 µg/Kg |
| Dinoseb | 23.1 µg/Kg | < 23.1 µg/Kg |
| MCPA | 23100 µg/Kg | < 23100 µg/Kg |
| MCPP | 23100 µg/Kg | < 23100 µg/Kg |



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REPORT NUMBER : D97-8277-9
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 83.2 % |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-12 LF-SB14(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 660
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.04 µg/Kg | < 3.04 µg/Kg |
| Alpha-BHC | 2.28 µg/Kg | < 2.28 µg/Kg |
| Beta-BHC | 4.57 µg/Kg | < 4.57 µg/Kg |
| Delta-BHC | 6.85 µg/Kg | < 6.85 µg/Kg |
| Gamma-BHC(Lindane) | 3.04 µg/Kg | < 3.04 µg/Kg |
| Chlordane | 10.7 µg/Kg | < 10.7 µg/Kg |
| 4,4'-DDD | 8.37 µg/Kg | < 8.37 µg/Kg |
| 4,4'-DDE | 3.04 µg/Kg | < 3.04 µg/Kg |
| 4,4'-DDT | 9.13 µg/Kg | < 9.13 µg/Kg |
| Dieldrin | 1.52 µg/Kg | < 1.52 µg/Kg |
| Endosulfan I | 10.7 µg/Kg | < 10.7 µg/Kg |
| Endosulfan II | 3.04 µg/Kg | < 3.04 µg/Kg |
| Endosulfan Sulfate | 50.2 µg/Kg | < 50.2 µg/Kg |
| Endrin | 4.57 µg/Kg | < 4.57 µg/Kg |



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REPORT NUMBER : D97-8277-9
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 17.5 | µg/Kg | < | 17.5 | µg/Kg |
| Heptachlor | 2.28 | µg/Kg | < | 2.28 | µg/Kg |
| Heptachlor Epoxide | 63.2 | µg/Kg | < | 63.2 | µg/Kg |
| Methoxychlor | 134 | µg/Kg | < | 134 | µg/Kg |
| Toxaphene | 183 | µg/Kg | < | 183 | µg/Kg |
| Aroclor-1016 | 49.5 | µg/Kg | < | 49.5 | µg/Kg |
| Aroclor-1221 | 49.5 | µg/Kg | < | 49.5 | µg/Kg |
| Aroclor-1232 | 49.5 | µg/Kg | < | 49.5 | µg/Kg |
| Aroclor-1242 | 49.5 | µg/Kg | < | 49.5 | µg/Kg |
| Aroclor-1248 | 49.5 | µg/Kg | < | 49.5 | µg/Kg |
| Aroclor-1254 | 49.5 | µg/Kg | < | 49.5 | µg/Kg |
| Aroclor-1260 | 49.5 | µg/Kg | < | 49.5 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 98.4 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 82.1 % |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-12 LF-SB14(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.1 µg/Kg | < 23.1 µg/Kg |
| Acrylonitrile | 5.77 µg/Kg | < 5.77 µg/Kg |
| Benzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| Bromobenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| Bromochloromethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| Bromodichloromethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| Bromoform | 5.77 µg/Kg | < 5.77 µg/Kg |
| Carbon disulfide | 5.77 µg/Kg | < 5.77 µg/Kg |
| Carbon tetrachloride | 5.77 µg/Kg | < 5.77 µg/Kg |
| Chlorobenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| Chloroethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| Chloroform | 5.77 µg/Kg | < 5.77 µg/Kg |
| 2-Chlorotoluene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 4-Chlorotoluene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 2-Chloroethylvinyl ether | 11.5 µg/Kg | < 11.5 µg/Kg |
| Dibromochloromethane | 5.77 µg/Kg | < 5.77 µg/Kg |

REPORT NUMBER : D97-8277-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 28.9 µg/Kg | < 28.9 µg/Kg |
| 1,2-Dibromoethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,2-Dichlorobenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,3-Dichlorobenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,4-Dichlorobenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| trans-1,4-Dichloro-2-butene | 115 µg/Kg | < 115 µg/Kg |
| 1,1-Dichloroethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,2-Dichloroethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,1-Dichloroethene | 5.77 µg/Kg | < 5.77 µg/Kg |
| cis-1,2-Dichloroethene | 5.77 µg/Kg | < 5.77 µg/Kg |
| trans-1,2-Dichloroethene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,2-Dichloropropane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 2,2-Dichloropropane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,1-Dichloropropene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,3-Dichloropropane | 5.77 µg/Kg | < 5.77 µg/Kg |
| cis-1,3-Dichloropropene | 5.77 µg/Kg | < 5.77 µg/Kg |
| trans-1,3-Dichloropropene | 5.77 µg/Kg | < 5.77 µg/Kg |
| Ethylbenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 2-Hexanone | 57.7 µg/Kg | < 57.7 µg/Kg |
| Bromomethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| Chloromethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| Dibromomethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 2-Butanone | 115 µg/Kg | < 115 µg/Kg |
| Iodomethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| Methylene chloride | 5.77 µg/Kg | < 5.77 µg/Kg |
| 4-Methyl-2-pentanone | 115 µg/Kg | < 115 µg/Kg |

REPORT NUMBER : D97-8277-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| Tetrachloroethene | 5.77 µg/Kg | < 5.77 µg/Kg |
| Toluene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,1,1-Trichloroethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,1,2-Trichloroethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| Trichloroethene | 5.77 µg/Kg | < 5.77 µg/Kg |
| Trichlorofluoromethane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,2,3-Trichloropropane | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.77 µg/Kg | < 5.77 µg/Kg |
| Vinyl acetate | 57.7 µg/Kg | < 57.7 µg/Kg |
| Vinyl chloride | 2.31 µg/Kg | < 2.31 µg/Kg |
| m,p-Xylene | 5.77 µg/Kg | < 5.77 µg/Kg |
| o-Xylene | 5.77 µg/Kg | < 5.77 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 93.8 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 87.6 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-12 LF-SB14(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-12 LF-SB14(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Acenaphthylene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Anthracene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Benzo(a)anthracene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Benzo(b)fluoranthene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Benzo(k)fluoranthene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Benzo(g,h,i)perylene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Benzo(a)pyrene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Benzyl alcohol | 0.751 mg/Kg | < 0.751 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.381 mg/Kg | < 0.381 mg/Kg |
| Bis(2-chloroethyl)ether | 0.381 mg/Kg | < 0.381 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.381 mg/Kg | < 0.381 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.381 mg/Kg | < 0.381 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.381 mg/Kg | < 0.381 mg/Kg |



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REPORT NUMBER : D97-8277-9
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.381 mg/Kg | < 0.381 mg/Kg |
| Carbazole | 0.381 mg/Kg | < 0.381 mg/Kg |
| 4-Chloroaniline | 0.381 mg/Kg | < 0.381 mg/Kg |
| 2-Chloronaphthalene | 0.381 mg/Kg | < 0.381 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.381 mg/Kg | < 0.381 mg/Kg |
| Chrysene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Dibenz(a,h)anthracene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Dibenzofuran | 0.381 mg/Kg | < 0.381 mg/Kg |
| Di-n-butylphthalate | 0.381 mg/Kg | < 0.381 mg/Kg |
| 1,2-Dichlorobenzene | 0.381 mg/Kg | < 0.381 mg/Kg |
| 1,3-Dichlorobenzene | 0.381 mg/Kg | < 0.381 mg/Kg |
| 1,4-Dichlorobenzene | 0.381 mg/Kg | < 0.381 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.381 mg/Kg | < 0.381 mg/Kg |
| Diethyl phthalate | 0.381 mg/Kg | < 0.381 mg/Kg |
| Dimethyl phthalate | 0.381 mg/Kg | < 0.381 mg/Kg |
| 2,4-Dinitrotoluene | 0.381 mg/Kg | < 0.381 mg/Kg |
| 2,6-Dinitrotoluene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Di-n-octylphthalate | 0.381 mg/Kg | < 0.381 mg/Kg |
| Fluoranthene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Fluorene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Hexachlorobenzene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Hexachlorobutadiene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Hexachlorocyclopentadiene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Hexachloroethane | 0.381 mg/Kg | < 0.381 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Isophorone | 0.381 mg/Kg | < 0.381 mg/Kg |

REPORT NUMBER : D97-8277-9
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Naphthalene | 0.381 mg/Kg | < 0.381 mg/Kg |
| 2-Nitroaniline | 1.91 mg/Kg | < 1.91 mg/Kg |
| 3-Nitroaniline | 1.91 mg/Kg | < 1.91 mg/Kg |
| 4-Nitroaniline | 1.91 mg/Kg | < 1.91 mg/Kg |
| Nitrobenzene | 0.381 mg/Kg | < 0.381 mg/Kg |
| N-Nitrosodiphenylamine | 0.381 mg/Kg | < 0.381 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.381 mg/Kg | < 0.381 mg/Kg |
| Phenanthrene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Pyrene | 0.381 mg/Kg | < 0.381 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.381 mg/Kg | < 0.381 mg/Kg |
| Benzoic acid | 0.924 mg/Kg | < 0.924 mg/Kg |
| 4-Chloro-3-methylphenol | 0.751 mg/Kg | < 0.751 mg/Kg |
| 2-Chlorophenol | 0.381 mg/Kg | < 0.381 mg/Kg |
| 2,4-Dichlorophenol | 0.381 mg/Kg | < 0.381 mg/Kg |
| 2,4-Dimethylphenol | 0.381 mg/Kg | < 0.381 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.91 mg/Kg | < 1.91 mg/Kg |
| 2,4-Dinitrophenol | 1.91 mg/Kg | < 1.91 mg/Kg |
| 2-Methylphenol | 0.381 mg/Kg | < 0.381 mg/Kg |
| 4-Methylphenol | 0.381 mg/Kg | < 0.381 mg/Kg |
| 2-Nitrophenol | 0.381 mg/Kg | < 0.381 mg/Kg |
| 4-Nitrophenol | 0.924 mg/Kg | < 0.924 mg/Kg |
| Pentachlorophenol | 1.91 mg/Kg | < 1.91 mg/Kg |
| Phenol | 0.381 mg/Kg | < 0.381 mg/Kg |
| 2,4,5-Trichlorophenol | 1.91 mg/Kg | < 1.91 mg/Kg |
| 2,4,6-Trichlorophenol | 0.381 mg/Kg | < 0.381 mg/Kg |

REPORT NUMBER : D97-8277-9 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 41.7 % |
| 2-Fluorobiphenyl (SS) | | 64.1 % |
| Terphenyl-d14 (SS) | | 73.1 % |
| Phenol-d6 (SS) | | 69.7 % |
| 2-Fluorophenol (SS) | | 70.0 % |
| 2,4,6-Tribromophenol (SS) | | 68.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-9
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-12 LF-SB14(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.38 mg/Kg |

Applicable results are reported on Dry Weight basis.

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04407

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-13 LF-SB14(6.5_
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.7 mg/Kg | 7590 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.587 mg/Kg | 1.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Barium | /1 | 1.2 mg/Kg | 59.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-10 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 1470 mg/Kg | 71700 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 3.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 6.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.17 mg/Kg | 2.95 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 11.7 mg/Kg | 9630 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.141 mg/Kg | < 0.141 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |

REPORT NUMBER : D97-8277-10 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 117 | mg/Kg | 1510 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 58.7 | mg/Kg | 2450 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.2 | mg/Kg | 104 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 117 | mg/Kg | 263 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.2 | mg/Kg | 21.8 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.59 | mg/Kg | 6.29 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 5.9 | mg/Kg | < 5.9 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-10 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.17 mg/Kg | < 1.17 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 17.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.52 mg/Kg | 24.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-13 LF-SB14(6.5_
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| MISCELLANEOUS ANALYSES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 85.2 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154040I | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

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REPORT NUMBER : D97-8277-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-13 LF-SB14(6.5_
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.7 µg/Kg | < 58.7 µg/Kg |
| 2,4-DB | 58.7 µg/Kg | < 58.7 µg/Kg |
| 2,4,5-T | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2,4,5-TP(Silvex) | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dalapon | 235 µg/Kg | < 235 µg/Kg |
| Dicamba | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dichlorprop | 58.7 µg/Kg | < 58.7 µg/Kg |
| Dinoseb | 23.5 µg/Kg | < 23.5 µg/Kg |
| MCPA | 23500 µg/Kg | < 23500 µg/Kg |
| MCPP | 23500 µg/Kg | < 23500 µg/Kg |



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REPORT NUMBER : D97-8277-10
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 83.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-13 LF-SB14(6.5_
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-94A

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.15 µg/Kg | < 3.15 µg/Kg |
| Alpha-BHC | 2.36 µg/Kg | < 2.36 µg/Kg |
| Beta-BHC | 4.72 µg/Kg | < 4.72 µg/Kg |
| Delta-BHC | 7.08 µg/Kg | < 7.08 µg/Kg |
| Gamma-BHC(Lindane) | 3.15 µg/Kg | < 3.15 µg/Kg |
| Chlordane | 11.0 µg/Kg | < 11.0 µg/Kg |
| 4,4'-DDD | 8.65 µg/Kg | < 8.65 µg/Kg |
| 4,4'-DDE | 3.15 µg/Kg | < 3.15 µg/Kg |
| 4,4'-DDT | 9.44 µg/Kg | < 9.44 µg/Kg |
| Dieldrin | 1.57 µg/Kg | < 1.57 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < 11.0 µg/Kg |
| Endosulfan II | 3.15 µg/Kg | < 3.15 µg/Kg |
| Endosulfan Sulfate | 51.9 µg/Kg | < 51.9 µg/Kg |
| Endrin | 4.72 µg/Kg | < 4.72 µg/Kg |



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REPORT NUMBER : D97-8277-10
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.1 µg/Kg | < 18.1 µg/Kg |
| Heptachlor | 2.36 µg/Kg | < 2.36 µg/Kg |
| Heptachlor Epoxide | 65.3 µg/Kg | < 65.3 µg/Kg |
| Methoxychlor | 138 µg/Kg | < 138 µg/Kg |
| Toxaphene | 189 µg/Kg | < 189 µg/Kg |
| Aroclor-1016 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1221 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1232 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1242 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1248 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1254 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1260 | 51.1 µg/Kg | < 51.1 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 88.0 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 70.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-13 LF-SB14(6.5_
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707141001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.5 µg/Kg | < 23.5 µg/Kg |
| Acrylonitrile | 5.87 µg/Kg | < 5.87 µg/Kg |
| Benzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromochloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromodichloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromoform | 5.87 µg/Kg | < 5.87 µg/Kg |
| Carbon disulfide | 5.87 µg/Kg | < 5.87 µg/Kg |
| Carbon tetrachloride | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloroform | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Chlorotoluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 4-Chlorotoluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Chloroethylvinyl ether | 11.7 µg/Kg | < 11.7 µg/Kg |
| Dibromochloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |



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REPORT NUMBER : D97-8277-10
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.3 µg/Kg | < 29.3 µg/Kg |
| 1,2-Dibromoethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,4-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,4-Dichloro-2-butene | 117 µg/Kg | < 117 µg/Kg |
| 1,1-Dichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| cis-1,2-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,2-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2,2-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| cis-1,3-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,3-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Ethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Hexanone | 58.7 µg/Kg | < 58.7 µg/Kg |
| Bromomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dibromomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Butanone | 117 µg/Kg | < 117 µg/Kg |
| Iodomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Methylene chloride | 5.87 µg/Kg | < 5.87 µg/Kg |
| 4-Methyl-2-pentanone | 117 µg/Kg | < 117 µg/Kg |

REPORT NUMBER : D97-8277-10
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Tetrachloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Toluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,1-Trichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,2-Trichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Trichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Trichlorofluoromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,3-Trichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Vinyl acetate | 58.7 µg/Kg | < 58.7 µg/Kg |
| Vinyl chloride | 2.35 µg/Kg | < 2.35 µg/Kg |
| m,p-Xylene | 5.87 µg/Kg | < 5.87 µg/Kg |
| o-Xylene | 5.87 µg/Kg | < 5.87 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 94.4 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 94.6 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-13 LF-SB14(6.5_
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 14-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707141001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ADDRESS : 4815 Cass St.
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-13 LF-SB14(6.5_
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Acenaphthylene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Anthracene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Benzo(a)anthracene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Benzo(b)fluoranthene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Benzo(k)fluoranthene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Benzo(g,h,i)perylene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Benzo(a)pyrene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Benzyl alcohol | 0.756 mg/Kg | < 0.756 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.384 mg/Kg | < 0.384 mg/Kg |
| Bis(2-chloroethyl)ether | 0.384 mg/Kg | < 0.384 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.384 mg/Kg | < 0.384 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.384 mg/Kg | < 0.384 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.384 mg/Kg | < 0.384 mg/Kg |

REPORT NUMBER : D97-8277-10
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.384 mg/Kg | < 0.384 mg/Kg |
| Carbazole | 0.384 mg/Kg | < 0.384 mg/Kg |
| 4-Chloroaniline | 0.384 mg/Kg | < 0.384 mg/Kg |
| 2-Chloronaphthalene | 0.384 mg/Kg | < 0.384 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.384 mg/Kg | < 0.384 mg/Kg |
| Chrysene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Dibenz(a,h)anthracene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Dibenzofuran | 0.384 mg/Kg | < 0.384 mg/Kg |
| Di-n-butylphthalate | 0.384 mg/Kg | < 0.384 mg/Kg |
| 1,2-Dichlorobenzene | 0.384 mg/Kg | < 0.384 mg/Kg |
| 1,3-Dichlorobenzene | 0.384 mg/Kg | < 0.384 mg/Kg |
| 1,4-Dichlorobenzene | 0.384 mg/Kg | < 0.384 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.384 mg/Kg | < 0.384 mg/Kg |
| Diethyl phthalate | 0.384 mg/Kg | < 0.384 mg/Kg |
| Dimethyl phthalate | 0.384 mg/Kg | < 0.384 mg/Kg |
| 2,4-Dinitrotoluene | 0.384 mg/Kg | < 0.384 mg/Kg |
| 2,6-Dinitrotoluene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Di-n-octylphthalate | 0.384 mg/Kg | < 0.384 mg/Kg |
| Fluoranthene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Fluorene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Hexachlorobenzene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Hexachlorobutadiene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Hexachlorocyclopentadiene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Hexachloroethane | 0.384 mg/Kg | < 0.384 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Isophorone | 0.384 mg/Kg | < 0.384 mg/Kg |

REPORT NUMBER : D97-8277-10
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Naphthalene | 0.384 mg/Kg | < 0.384 mg/Kg |
| 2-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| 3-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| 4-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| Nitrobenzene | 0.384 mg/Kg | < 0.384 mg/Kg |
| N-Nitrosodiphenylamine | 0.384 mg/Kg | < 0.384 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.384 mg/Kg | < 0.384 mg/Kg |
| Phenanthrene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Pyrene | 0.384 mg/Kg | < 0.384 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.384 mg/Kg | < 0.384 mg/Kg |
| Benzoic acid | 0.930 mg/Kg | < 0.930 mg/Kg |
| 4-Chloro-3-methylphenol | 0.756 mg/Kg | < 0.756 mg/Kg |
| 2-Chlorophenol | 0.384 mg/Kg | < 0.384 mg/Kg |
| 2,4-Dichlorophenol | 0.384 mg/Kg | < 0.384 mg/Kg |
| 2,4-Dimethylphenol | 0.384 mg/Kg | < 0.384 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2,4-Dinitrophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2-Methylphenol | 0.384 mg/Kg | < 0.384 mg/Kg |
| 4-Methylphenol | 0.384 mg/Kg | < 0.384 mg/Kg |
| 2-Nitrophenol | 0.384 mg/Kg | < 0.384 mg/Kg |
| 4-Nitrophenol | 0.930 mg/Kg | < 0.930 mg/Kg |
| Pentachlorophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| Phenol | 0.384 mg/Kg | < 0.384 mg/Kg |
| 2,4,5-Trichlorophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2,4,6-Trichlorophenol | 0.384 mg/Kg | < 0.384 mg/Kg |

REPORT NUMBER : D97-8277-10 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 62.2 % |
| 2-Fluorobiphenyl (SS) | | 59.6 % |
| Terphenyl-d14 (SS) | | 64.6 % |
| Phenol-d6 (SS) | | 67.8 % |
| 2-Fluorophenol (SS) | | 65.4 % |
| 2,4,6-Tribromophenol (SS) | | 59.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-10
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-13 LF-SB14(6.5_
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-14 LF-SB24(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.56 mg/Kg | < 0.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.2 mg/Kg | 8320 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.561 mg/Kg | 3.20 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Barium | /1 | 1.1 mg/Kg | 89.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.34 mg/Kg | 0.48 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-11 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 56 mg/Kg | 17500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.56 mg/Kg | < 0.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.1 mg/Kg | 4.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 8.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.12 mg/Kg | 7.77 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 11.2 mg/Kg | 11100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.135 mg/Kg | < 0.135 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-11 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 112 | mg/Kg | 1980 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 56.1 | mg/Kg | 2400 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.1 | mg/Kg | 188 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 112 | mg/Kg | 491 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.1 | mg/Kg | 8.3 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.56 | mg/Kg | 28.3 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 5.6 | mg/Kg | < 5.6 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-11 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.56 mg/Kg | < 0.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.1 mg/Kg | 2.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.12 mg/Kg | < 1.12 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.1 mg/Kg | 14.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.37 mg/Kg | 99.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-14 LF-SB24(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 89.1 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154040I | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-14 LF-SB24(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 56.1 µg/Kg | < 56.1 µg/Kg |
| 2,4-DB | 56.1 µg/Kg | < 56.1 µg/Kg |
| 2,4,5-T | 5.61 µg/Kg | < 5.61 µg/Kg |
| 2,4,5-TP(Silvex) | 5.61 µg/Kg | < 5.61 µg/Kg |
| Dalapon | 224 µg/Kg | < 224 µg/Kg |
| Dicamba | 5.61 µg/Kg | < 5.61 µg/Kg |
| Dichlorprop | 56.1 µg/Kg | < 56.1 µg/Kg |
| Dinoseb | 22.4 µg/Kg | < 22.4 µg/Kg |
| MCPA | 22400 µg/Kg | < 22400 µg/Kg |
| MCPP | 22400 µg/Kg | < 22400 µg/Kg |



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REPORT NUMBER : D97-8277-11
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 86.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-14 LF-SB24(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 16-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 660
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 2.98 µg/Kg | < 2.98 µg/Kg |
| Alpha-BHC | 2.23 µg/Kg | < 2.23 µg/Kg |
| Beta-BHC | 4.46 µg/Kg | < 4.46 µg/Kg |
| Delta-BHC | 6.70 µg/Kg | < 6.70 µg/Kg |
| Gamma-BHC(Lindane) | 2.98 µg/Kg | < 2.98 µg/Kg |
| Chlordane | 10.4 µg/Kg | 16.3 µg/Kg |
| 4,4'-DDD | 8.19 µg/Kg | < 8.19 µg/Kg |
| 4,4'-DDE | 2.98 µg/Kg | 7.80 µg/Kg |
| 4,4'-DDT | 8.93 µg/Kg | < 8.93 µg/Kg |
| Dieldrin | 1.49 µg/Kg | < 1.49 µg/Kg |
| Endosulfan I | 10.4 µg/Kg | < 10.4 µg/Kg |
| Endosulfan II | 2.98 µg/Kg | < 2.98 µg/Kg |
| Endosulfan Sulfate | 49.1 µg/Kg | < 49.1 µg/Kg |
| Endrin | 4.46 µg/Kg | < 4.46 µg/Kg |



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REPORT NUMBER : D97-8277-11
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 17.1 µg/Kg | < 17.1 µg/Kg |
| Heptachlor | 2.23 µg/Kg | < 2.23 µg/Kg |
| Heptachlor Epoxide | 61.8 µg/Kg | < 61.8 µg/Kg |
| Methoxychlor | 131 µg/Kg | < 131 µg/Kg |
| Toxaphene | 179 µg/Kg | < 179 µg/Kg |
| Aroclor-1016 | 48.4 µg/Kg | < 48.4 µg/Kg |
| Aroclor-1221 | 48.4 µg/Kg | < 48.4 µg/Kg |
| Aroclor-1232 | 48.4 µg/Kg | < 48.4 µg/Kg |
| Aroclor-1242 | 48.4 µg/Kg | < 48.4 µg/Kg |
| Aroclor-1248 | 48.4 µg/Kg | < 48.4 µg/Kg |
| Aroclor-1254 | 48.4 µg/Kg | < 48.4 µg/Kg |
| Aroclor-1260 | 48.4 µg/Kg | < 48.4 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 77.1 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 47.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-14 LF-SB24(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 22.4 µg/Kg | < 22.4 µg/Kg |
| Acrylonitrile | 5.61 µg/Kg | < 5.61 µg/Kg |
| Benzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| Bromobenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| Bromochloromethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| Bromodichloromethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| Bromoform | 5.61 µg/Kg | < 5.61 µg/Kg |
| Carbon disulfide | 5.61 µg/Kg | < 5.61 µg/Kg |
| Carbon tetrachloride | 5.61 µg/Kg | < 5.61 µg/Kg |
| Chlorobenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| Chloroethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| Chloroform | 5.61 µg/Kg | < 5.61 µg/Kg |
| 2-Chlorotoluene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 4-Chlorotoluene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 2-Chloroethylvinyl ether | 11.2 µg/Kg | < 11.2 µg/Kg |
| Dibromochloromethane | 5.61 µg/Kg | < 5.61 µg/Kg |

REPORT NUMBER : D97-8277-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 28.1 µg/Kg | < 28.1 µg/Kg |
| 1,2-Dibromoethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,2-Dichlorobenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,3-Dichlorobenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,4-Dichlorobenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| trans-1,4-Dichloro-2-butene | 112 µg/Kg | < 112 µg/Kg |
| 1,1-Dichloroethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,2-Dichloroethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,1-Dichloroethene | 5.61 µg/Kg | < 5.61 µg/Kg |
| cis-1,2-Dichloroethene | 5.61 µg/Kg | < 5.61 µg/Kg |
| trans-1,2-Dichloroethene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,2-Dichloropropane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 2,2-Dichloropropane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,1-Dichloropropene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,3-Dichloropropane | 5.61 µg/Kg | < 5.61 µg/Kg |
| cis-1,3-Dichloropropene | 5.61 µg/Kg | < 5.61 µg/Kg |
| trans-1,3-Dichloropropene | 5.61 µg/Kg | < 5.61 µg/Kg |
| Ethylbenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 2-Hexanone | 56.1 µg/Kg | < 56.1 µg/Kg |
| Bromomethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| Chloromethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| Dibromomethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 2-Butanone | 112 µg/Kg | < 112 µg/Kg |
| Iodomethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| Methylene chloride | 5.61 µg/Kg | < 5.61 µg/Kg |
| 4-Methyl-2-pentanone | 112 µg/Kg | < 112 µg/Kg |

REPORT NUMBER : D97-8277-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| Tetrachloroethene | 5.61 µg/Kg | < 5.61 µg/Kg |
| Toluene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,1,1-Trichloroethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,1,2-Trichloroethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| Trichloroethene | 5.61 µg/Kg | < 5.61 µg/Kg |
| Trichlorofluoromethane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,2,3-Trichloropropane | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.61 µg/Kg | < 5.61 µg/Kg |
| Vinyl acetate | 56.1 µg/Kg | < 56.1 µg/Kg |
| Vinyl chloride | 2.24 µg/Kg | < 2.24 µg/Kg |
| m,p-Xylene | 5.61 µg/Kg | < 5.61 µg/Kg |
| o-Xylene | 5.61 µg/Kg | < 5.61 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 96.0 % |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 88.0 % |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-14 LF-SB24(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 11 ug/Kg |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-14 LF-SB24(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Acenaphthylene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Anthracene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(a)anthracene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(b)fluoranthene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(k)fluoranthene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(g,h,i)perylene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzo(a)pyrene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzyl alcohol | 0.730 mg/Kg | < 0.730 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.370 mg/Kg | < 0.370 mg/Kg |
| Bis(2-chloroethyl)ether | 0.370 mg/Kg | < 0.370 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.370 mg/Kg | < 0.370 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.370 mg/Kg | < 0.370 mg/Kg |



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REPORT NUMBER : D97-8277-11
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| Carbazole | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Chloroaniline | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2-Chloronaphthalene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.370 mg/Kg | < 0.370 mg/Kg |
| Chrysene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Dibenz(a,h)anthracene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Dibenzofuran | 0.370 mg/Kg | < 0.370 mg/Kg |
| Di-n-butylphthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| 1,2-Dichlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 1,3-Dichlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 1,4-Dichlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.370 mg/Kg | < 0.370 mg/Kg |
| Diethyl phthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| Dimethyl phthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,4-Dinitrotoluene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,6-Dinitrotoluene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Di-n-octylphthalate | 0.370 mg/Kg | < 0.370 mg/Kg |
| Fluoranthene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Fluorene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Hexachlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Hexachlorobutadiene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Hexachlorocyclopentadiene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Hexachloroethane | 0.370 mg/Kg | < 0.370 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Isophorone | 0.370 mg/Kg | < 0.370 mg/Kg |

REPORT NUMBER : D97-8277-11
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Naphthalene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2-Nitroaniline | 1.85 mg/Kg | < 1.85 mg/Kg |
| 3-Nitroaniline | 1.85 mg/Kg | < 1.85 mg/Kg |
| 4-Nitroaniline | 1.85 mg/Kg | < 1.85 mg/Kg |
| Nitrobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| N-Nitrosodiphenylamine | 0.370 mg/Kg | < 0.370 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.370 mg/Kg | < 0.370 mg/Kg |
| Phenanthrene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Pyrene | 0.370 mg/Kg | < 0.370 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.370 mg/Kg | < 0.370 mg/Kg |
| Benzoic acid | 0.898 mg/Kg | < 0.898 mg/Kg |
| 4-Chloro-3-methylphenol | 0.730 mg/Kg | < 0.730 mg/Kg |
| 2-Chlorophenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,4-Dichlorophenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,4-Dimethylphenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.85 mg/Kg | < 1.85 mg/Kg |
| 2,4-Dinitrophenol | 1.85 mg/Kg | < 1.85 mg/Kg |
| 2-Methylphenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Methylphenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2-Nitrophenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 4-Nitrophenol | 0.898 mg/Kg | < 0.898 mg/Kg |
| Pentachlorophenol | 1.85 mg/Kg | < 1.85 mg/Kg |
| Phenol | 0.370 mg/Kg | < 0.370 mg/Kg |
| 2,4,5-Trichlorophenol | 1.85 mg/Kg | < 1.85 mg/Kg |
| 2,4,6-Trichlorophenol | 0.370 mg/Kg | < 0.370 mg/Kg |



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REPORT NUMBER : D97-8277-11
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 55.8 % |
| 2-Fluorobiphenyl (SS) | | 63.5 % |
| Terphenyl-d14 (SS) | | 66.5 % |
| Phenol-d6 (SS) | | 64.7 % |
| 2-Fluorophenol (SS) | | 62.4 % |
| 2,4,6-Tribromophenol (SS) | | 61.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-11
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-14 LF-SB24(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 11-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.37 mg/Kg |

Applicable results are reported on Dry Weight basis.



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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-15 LF-SB24(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.63 mg/Kg | < 0.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 12.5 mg/Kg | 10600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.625 mg/Kg | 3.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.3 mg/Kg | 120 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.38 mg/Kg | 0.46 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-12 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 63 mg/Kg | 25000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.63 mg/Kg | < 0.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.3 mg/Kg | 4.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 9.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.25 mg/Kg | 6.15 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 12.5 mg/Kg | 10800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.150 mg/Kg | < 0.150 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-12 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 125 | mg/Kg | 1960 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 62.5 | mg/Kg | 4530 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.3 | mg/Kg | 146 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 3130 | mg/Kg | 4510 | mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.3 | mg/Kg | 8.8 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.63 | mg/Kg | 7.49 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 6.3 | mg/Kg | < 6.3 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-12 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.63 mg/Kg | < 0.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.3 mg/Kg | 1.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.25 mg/Kg | < 1.25 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.3 mg/Kg | 20.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.75 mg/Kg | 37.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-15 LF-SB24(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 80.0 % |

Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB
QC Batch No : 154040I

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-15 LF-SB24(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 62.5 µg/Kg | < 62.5 µg/Kg |
| 2,4-DB | 62.5 µg/Kg | < 62.5 µg/Kg |
| 2,4,5-T | 6.25 µg/Kg | < 6.25 µg/Kg |
| 2,4,5-TP(Silvex) | 6.25 µg/Kg | < 6.25 µg/Kg |
| Dalapon | 250 µg/Kg | < 250 µg/Kg |
| Dicamba | 6.25 µg/Kg | < 6.25 µg/Kg |
| Dichlorprop | 62.5 µg/Kg | < 62.5 µg/Kg |
| Dinoseb | 25.0 µg/Kg | < 25.0 µg/Kg |
| MCPA | 25000 µg/Kg | < 25000 µg/Kg |
| MCPP | 25000 µg/Kg | < 25000 µg/Kg |



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REPORT NUMBER : D97-8277-12
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 79.9 % |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-15 LF-SB24(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.33 µg/Kg | < 3.33 µg/Kg |
| Alpha-BHC | 2.49 µg/Kg | < 2.49 µg/Kg |
| Beta-BHC | 4.99 µg/Kg | < 4.99 µg/Kg |
| Delta-BHC | 7.48 µg/Kg | < 7.48 µg/Kg |
| Gamma-BHC(Lindane) | 3.33 µg/Kg | < 3.33 µg/Kg |
| Chlordane | 11.6 µg/Kg | < 11.6 µg/Kg |
| 4,4'-DDD | 9.14 µg/Kg | < 9.14 µg/Kg |
| 4,4'-DDE | 3.33 µg/Kg | < 3.33 µg/Kg |
| 4,4'-DDT | 9.98 µg/Kg | < 9.98 µg/Kg |
| Dieldrin | 1.66 µg/Kg | < 1.66 µg/Kg |
| Endosulfan I | 11.6 µg/Kg | < 11.6 µg/Kg |
| Endosulfan II | 3.33 µg/Kg | < 3.33 µg/Kg |
| Endosulfan Sulfate | 54.9 µg/Kg | < 54.9 µg/Kg |
| Endrin | 4.99 µg/Kg | < 4.99 µg/Kg |

REPORT NUMBER : D97-8277-12
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 19.1 | µg/Kg | < | 19.1 | µg/Kg |
| Heptachlor | 2.49 | µg/Kg | < | 2.49 | µg/Kg |
| Heptachlor Epoxide | 69.0 | µg/Kg | < | 69.0 | µg/Kg |
| Methoxychlor | 146 | µg/Kg | < | 146 | µg/Kg |
| Toxaphene | 200 | µg/Kg | < | 200 | µg/Kg |
| Aroclor-1016 | 54.0 | µg/Kg | < | 54.0 | µg/Kg |
| Aroclor-1221 | 54.0 | µg/Kg | < | 54.0 | µg/Kg |
| Aroclor-1232 | 54.0 | µg/Kg | < | 54.0 | µg/Kg |
| Aroclor-1242 | 54.0 | µg/Kg | < | 54.0 | µg/Kg |
| Aroclor-1248 | 54.0 | µg/Kg | < | 54.0 | µg/Kg |
| Aroclor-1254 | 54.0 | µg/Kg | < | 54.0 | µg/Kg |
| Aroclor-1260 | 54.0 | µg/Kg | < | 54.0 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 111 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 79.1 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-15 LF-SB24(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 25.0 µg/Kg | < 25.0 µg/Kg |
| Acrylonitrile | 6.25 µg/Kg | < 6.25 µg/Kg |
| Benzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| Bromobenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| Bromochloromethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| Bromodichloromethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| Bromoform | 6.25 µg/Kg | < 6.25 µg/Kg |
| Carbon disulfide | 6.25 µg/Kg | < 6.25 µg/Kg |
| Carbon tetrachloride | 6.25 µg/Kg | < 6.25 µg/Kg |
| Chlorobenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| Chloroethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| Chloroform | 6.25 µg/Kg | < 6.25 µg/Kg |
| 2-Chlorotoluene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 4-Chlorotoluene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 2-Chloroethylvinyl ether | 12.5 µg/Kg | < 12.5 µg/Kg |
| Dibromochloromethane | 6.25 µg/Kg | < 6.25 µg/Kg |

REPORT NUMBER : D97-8277-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 31.3 µg/Kg | < 31.3 µg/Kg |
| 1,2-Dibromoethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,2-Dichlorobenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,3-Dichlorobenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,4-Dichlorobenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| trans-1,4-Dichloro-2-butene | 125 µg/Kg | < 125 µg/Kg |
| 1,1-Dichloroethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,2-Dichloroethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,1-Dichloroethene | 6.25 µg/Kg | < 6.25 µg/Kg |
| cis-1,2-Dichloroethene | 6.25 µg/Kg | < 6.25 µg/Kg |
| trans-1,2-Dichloroethene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,2-Dichloropropane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 2,2-Dichloropropane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,1-Dichloropropene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,3-Dichloropropane | 6.25 µg/Kg | < 6.25 µg/Kg |
| cis-1,3-Dichloropropene | 6.25 µg/Kg | < 6.25 µg/Kg |
| trans-1,3-Dichloropropene | 6.25 µg/Kg | < 6.25 µg/Kg |
| Ethylbenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 2-Hexanone | 62.5 µg/Kg | < 62.5 µg/Kg |
| Bromomethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| Chloromethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| Dibromomethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 2-Butanone | 125 µg/Kg | < 125 µg/Kg |
| Iodomethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| Methylene chloride | 6.25 µg/Kg | < 6.25 µg/Kg |
| 4-Methyl-2-pentanone | 125 µg/Kg | < 125 µg/Kg |

REPORT NUMBER : D97-8277-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| Tetrachloroethene | 6.25 µg/Kg | < 6.25 µg/Kg |
| Toluene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,1,1-Trichloroethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,1,2-Trichloroethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| Trichloroethene | 6.25 µg/Kg | < 6.25 µg/Kg |
| Trichlorofluoromethane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,2,3-Trichloropropane | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.25 µg/Kg | < 6.25 µg/Kg |
| Vinyl acetate | 62.5 µg/Kg | < 62.5 µg/Kg |
| Vinyl chloride | 2.50 µg/Kg | < 2.50 µg/Kg |
| m,p-Xylene | 6.25 µg/Kg | < 6.25 µg/Kg |
| o-Xylene | 6.25 µg/Kg | < 6.25 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 96.6 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 94.4 % |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-15 LF-SB24(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 13 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-15 LF-SB24(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Acenaphthylene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Anthracene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Benzo(a)anthracene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Benzo(b)fluoranthene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Benzo(k)fluoranthene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Benzo(g,h,i)perylene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Benzo(a)pyrene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Benzyl alcohol | 0.813 mg/Kg | < 0.813 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.413 mg/Kg | < 0.413 mg/Kg |
| Bis(2-chloroethyl)ether | 0.413 mg/Kg | < 0.413 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.413 mg/Kg | < 0.413 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.413 mg/Kg | < 0.413 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.413 mg/Kg | < 0.413 mg/Kg |

REPORT NUMBER : D97-8277-12
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.413 mg/Kg | < 0.413 mg/Kg |
| Carbazole | 0.413 mg/Kg | < 0.413 mg/Kg |
| 4-Chloroaniline | 0.413 mg/Kg | < 0.413 mg/Kg |
| 2-Chloronaphthalene | 0.413 mg/Kg | < 0.413 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.413 mg/Kg | < 0.413 mg/Kg |
| Chrysene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Dibenz(a,h)anthracene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Dibenzofuran | 0.413 mg/Kg | < 0.413 mg/Kg |
| Di-n-butylphthalate | 0.413 mg/Kg | < 0.413 mg/Kg |
| 1,2-Dichlorobenzene | 0.413 mg/Kg | < 0.413 mg/Kg |
| 1,3-Dichlorobenzene | 0.413 mg/Kg | < 0.413 mg/Kg |
| 1,4-Dichlorobenzene | 0.413 mg/Kg | < 0.413 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.413 mg/Kg | < 0.413 mg/Kg |
| Diethyl phthalate | 0.413 mg/Kg | < 0.413 mg/Kg |
| Dimethyl phthalate | 0.413 mg/Kg | < 0.413 mg/Kg |
| 2,4-Dinitrotoluene | 0.413 mg/Kg | < 0.413 mg/Kg |
| 2,6-Dinitrotoluene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Di-n-octylphthalate | 0.413 mg/Kg | < 0.413 mg/Kg |
| Fluoranthene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Fluorene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Hexachlorobenzene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Hexachlorobutadiene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Hexachlorocyclopentadiene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Hexachloroethane | 0.413 mg/Kg | < 0.413 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Isophorone | 0.413 mg/Kg | < 0.413 mg/Kg |

REPORT NUMBER : D97-8277-12
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Naphthalene | 0.413 mg/Kg | < 0.413 mg/Kg |
| 2-Nitroaniline | 2.06 mg/Kg | < 2.06 mg/Kg |
| 3-Nitroaniline | 2.06 mg/Kg | < 2.06 mg/Kg |
| 4-Nitroaniline | 2.06 mg/Kg | < 2.06 mg/Kg |
| Nitrobenzene | 0.413 mg/Kg | < 0.413 mg/Kg |
| N-Nitrosodiphenylamine | 0.413 mg/Kg | < 0.413 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.413 mg/Kg | < 0.413 mg/Kg |
| Phenanthrene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Pyrene | 0.413 mg/Kg | < 0.413 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.413 mg/Kg | < 0.413 mg/Kg |
| Benzoic acid | 1.00 mg/Kg | < 1.00 mg/Kg |
| 4-Chloro-3-methylphenol | 0.813 mg/Kg | < 0.813 mg/Kg |
| 2-Chlorophenol | 0.413 mg/Kg | < 0.413 mg/Kg |
| 2,4-Dichlorophenol | 0.413 mg/Kg | < 0.413 mg/Kg |
| 2,4-Dimethylphenol | 0.413 mg/Kg | < 0.413 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.06 mg/Kg | < 2.06 mg/Kg |
| 2,4-Dinitrophenol | 2.06 mg/Kg | < 2.06 mg/Kg |
| 2-Methylphenol | 0.413 mg/Kg | < 0.413 mg/Kg |
| 4-Methylphenol | 0.413 mg/Kg | < 0.413 mg/Kg |
| 2-Nitrophenol | 0.413 mg/Kg | < 0.413 mg/Kg |
| 4-Nitrophenol | 1.00 mg/Kg | < 1.00 mg/Kg |
| Pentachlorophenol | 2.06 mg/Kg | < 2.06 mg/Kg |
| Phenol | 0.413 mg/Kg | < 0.413 mg/Kg |
| 2,4,5-Trichlorophenol | 2.06 mg/Kg | < 2.06 mg/Kg |
| 2,4,6-Trichlorophenol | 0.413 mg/Kg | < 0.413 mg/Kg |

REPORT NUMBER : D97-8277-12
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 62.3 % |
| 2-Fluorobiphenyl (SS) | | 54.3 % |
| Terphenyl-d14 (SS) | | 60.5 % |
| Phenol-d6 (SS) | | 62.8 % |
| 2-Fluorophenol (SS) | | 66.1 % |
| 2,4,6-Tribromophenol (SS) | | 57.1 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-12
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-15 LF-SB24(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
ANALYSIS METHOD : EPA 525/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.41 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 12.2 mg/Kg | 7240 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.611 mg/Kg | 3.46 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 15-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 75.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.37 mg/Kg | < 0.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-13 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 1530 mg/Kg | 41900 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 3.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 6.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.22 mg/Kg | 4.49 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 12.2 mg/Kg | 8630 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.147 mg/Kg | < 0.147 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |

REPORT NUMBER : D97-8277-13 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 122 | mg/Kg | 1530 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 61.1 | mg/Kg | 2880 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.2 | mg/Kg | 125 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 3060 | mg/Kg | 5310 | mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.2 | mg/Kg | 7.9 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.61 | mg/Kg | 6.30 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 6.1 | mg/Kg | < 6.1 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-13 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.22 mg/Kg | < 1.22 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 13.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.67 mg/Kg | 28.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| MISCELLANEOUS ANALYSES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 81.8 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154040I | | |

Applicable results are reported on Dry Weight basis.

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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 61.1 µg/Kg | < 61.1 µg/Kg |
| 2,4-DB | 61.1 µg/Kg | < 61.1 µg/Kg |
| 2,4,5-T | 6.11 µg/Kg | < 6.11 µg/Kg |
| 2,4,5-TP(Silvex) | 6.11 µg/Kg | < 6.11 µg/Kg |
| Dalapon | 244 µg/Kg | < 244 µg/Kg |
| Dicamba | 6.11 µg/Kg | < 6.11 µg/Kg |
| Dichlorprop | 61.1 µg/Kg | < 61.1 µg/Kg |
| Dinoseb | 24.4 µg/Kg | < 24.4 µg/Kg |
| MCPA | 24400 µg/Kg | < 24400 µg/Kg |
| MCPP | 24400 µg/Kg | < 24400 µg/Kg |



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REPORT NUMBER : D97-8277-13 PAGE 2
ANALYSIS METHOD : EPA 8151 /1

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 72.7 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
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SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 660
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.20 µg/Kg | < 3.20 µg/Kg |
| Alpha-BHC | 2.40 µg/Kg | < 2.40 µg/Kg |
| Beta-BHC | 4.80 µg/Kg | < 4.80 µg/Kg |
| Delta-BHC | 7.21 µg/Kg | < 7.21 µg/Kg |
| Gamma-BHC(Lindane) | 3.20 µg/Kg | < 3.20 µg/Kg |
| Chlordane | 11.2 µg/Kg | < 11.2 µg/Kg |
| 4,4'-DDD | 8.81 µg/Kg | < 8.81 µg/Kg |
| 4,4'-DDE | 3.20 µg/Kg | < 3.20 µg/Kg |
| 4,4'-DDT | 9.61 µg/Kg | < 9.61 µg/Kg |
| Dieldrin | 1.60 µg/Kg | < 1.60 µg/Kg |
| Endosulfan I | 11.2 µg/Kg | < 11.2 µg/Kg |
| Endosulfan II | 3.20 µg/Kg | < 3.20 µg/Kg |
| Endosulfan Sulfate | 52.8 µg/Kg | < 52.8 µg/Kg |
| Endrin | 4.80 µg/Kg | < 4.80 µg/Kg |



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REPORT NUMBER : D97-8277-13
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.4 | µg/Kg | < | 18.4 | µg/Kg |
| Heptachlor | 2.40 | µg/Kg | < | 2.40 | µg/Kg |
| Heptachlor Epoxide | 66.5 | µg/Kg | < | 66.5 | µg/Kg |
| Methoxychlor | 141 | µg/Kg | < | 141 | µg/Kg |
| Toxaphene | 192 | µg/Kg | < | 192 | µg/Kg |
| Aroclor-1016 | 52.0 | µg/Kg | < | 52.0 | µg/Kg |
| Aroclor-1221 | 52.0 | µg/Kg | < | 52.0 | µg/Kg |
| Aroclor-1232 | 52.0 | µg/Kg | < | 52.0 | µg/Kg |
| Aroclor-1242 | 52.0 | µg/Kg | < | 52.0 | µg/Kg |
| Aroclor-1248 | 52.0 | µg/Kg | < | 52.0 | µg/Kg |
| Aroclor-1254 | 52.0 | µg/Kg | < | 52.0 | µg/Kg |
| Aroclor-1260 | 52.0 | µg/Kg | < | 52.0 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 77.7 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 58.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.4 µg/Kg | < 24.4 µg/Kg |
| Acrylonitrile | 6.11 µg/Kg | < 6.11 µg/Kg |
| Benzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| Bromobenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| Bromochloromethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| Bromodichloromethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| Bromoform | 6.11 µg/Kg | < 6.11 µg/Kg |
| Carbon disulfide | 6.11 µg/Kg | < 6.11 µg/Kg |
| Carbon tetrachloride | 6.11 µg/Kg | < 6.11 µg/Kg |
| Chlorobenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| Chloroethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| Chloroform | 6.11 µg/Kg | < 6.11 µg/Kg |
| 2-Chlorotoluene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 4-Chlorotoluene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 2-Chloroethylvinyl ether | 12.2 µg/Kg | < 12.2 µg/Kg |
| Dibromochloromethane | 6.11 µg/Kg | < 6.11 µg/Kg |



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REPORT NUMBER : D97-8277-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.6 µg/Kg | < 30.6 µg/Kg |
| 1,2-Dibromoethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,2-Dichlorobenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,3-Dichlorobenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,4-Dichlorobenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| trans-1,4-Dichloro-2-butene | 122 µg/Kg | < 122 µg/Kg |
| 1,1-Dichloroethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,2-Dichloroethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,1-Dichloroethene | 6.11 µg/Kg | < 6.11 µg/Kg |
| cis-1,2-Dichloroethene | 6.11 µg/Kg | < 6.11 µg/Kg |
| trans-1,2-Dichloroethene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,2-Dichloropropane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 2,2-Dichloropropane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,1-Dichloropropene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,3-Dichloropropane | 6.11 µg/Kg | < 6.11 µg/Kg |
| cis-1,3-Dichloropropene | 6.11 µg/Kg | < 6.11 µg/Kg |
| trans-1,3-Dichloropropene | 6.11 µg/Kg | < 6.11 µg/Kg |
| Ethylbenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 2-Hexanone | 61.1 µg/Kg | < 61.1 µg/Kg |
| Bromomethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| Chloromethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| Dibromomethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 2-Butanone | 122 µg/Kg | < 122 µg/Kg |
| Iodomethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| Methylene chloride | 6.11 µg/Kg | < 6.11 µg/Kg |
| 4-Methyl-2-pentanone | 122 µg/Kg | < 122 µg/Kg |

REPORT NUMBER : D97-8277-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| Tetrachloroethene | 6.11 µg/Kg | < 6.11 µg/Kg |
| Toluene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,1,1-Trichloroethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,1,2-Trichloroethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| Trichloroethene | 6.11 µg/Kg | < 6.11 µg/Kg |
| Trichlorofluoromethane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,2,3-Trichloropropane | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.11 µg/Kg | < 6.11 µg/Kg |
| Vinyl acetate | 61.1 µg/Kg | < 61.1 µg/Kg |
| Vinyl chloride | 2.44 µg/Kg | < 2.44 µg/Kg |
| m,p-Xylene | 6.11 µg/Kg | < 6.11 µg/Kg |
| o-Xylene | 6.11 µg/Kg | < 6.11 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 94.8 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 94.0 % |

Applicable results are reported on Dry Weight basis.



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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Acenaphthylene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Anthracene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(a)anthracene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(b)fluoranthene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(k)fluoranthene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(g,h,i)perylene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(a)pyrene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzyl alcohol | 0.795 mg/Kg | < 0.795 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.403 mg/Kg | < 0.403 mg/Kg |
| Bis(2-chloroethyl)ether | 0.403 mg/Kg | < 0.403 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.403 mg/Kg | < 0.403 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.403 mg/Kg | < 0.403 mg/Kg |

REPORT NUMBER : D97-8277-13
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| Carbazole | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Chloroaniline | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2-Chloronaphthalene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.403 mg/Kg | < 0.403 mg/Kg |
| Chrysene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Dibenz(a,h)anthracene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Dibenzofuran | 0.403 mg/Kg | < 0.403 mg/Kg |
| Di-n-butylphthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| 1,2-Dichlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 1,3-Dichlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 1,4-Dichlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.403 mg/Kg | < 0.403 mg/Kg |
| Diethyl phthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| Dimethyl phthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,4-Dinitrotoluene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,6-Dinitrotoluene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Di-n-octylphthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| Fluoranthene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Fluorene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Hexachlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Hexachlorobutadiene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Hexachlorocyclopentadiene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Hexachloroethane | 0.403 mg/Kg | < 0.403 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Isophorone | 0.403 mg/Kg | < 0.403 mg/Kg |

REPORT NUMBER : D97-8277-13
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Naphthalene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2-Nitroaniline | 2.02 mg/Kg | < 2.02 mg/Kg |
| 3-Nitroaniline | 2.02 mg/Kg | < 2.02 mg/Kg |
| 4-Nitroaniline | 2.02 mg/Kg | < 2.02 mg/Kg |
| Nitrobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| N-Nitrosodiphenylamine | 0.403 mg/Kg | < 0.403 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.403 mg/Kg | < 0.403 mg/Kg |
| Phenanthrene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Pyrene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzoic acid | 0.978 mg/Kg | < 0.978 mg/Kg |
| 4-Chloro-3-methylphenol | 0.795 mg/Kg | < 0.795 mg/Kg |
| 2-Chlorophenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,4-Dichlorophenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,4-Dimethylphenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.02 mg/Kg | < 2.02 mg/Kg |
| 2,4-Dinitrophenol | 2.02 mg/Kg | < 2.02 mg/Kg |
| 2-Methylphenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Methylphenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2-Nitrophenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Nitrophenol | 0.978 mg/Kg | < 0.978 mg/Kg |
| Pentachlorophenol | 2.02 mg/Kg | < 2.02 mg/Kg |
| Phenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,4,5-Trichlorophenol | 2.02 mg/Kg | < 2.02 mg/Kg |
| 2,4,6-Trichlorophenol | 0.403 mg/Kg | < 0.403 mg/Kg |

REPORT NUMBER : D97-8277-13
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 28.1 % |
| 2-Fluorobiphenyl (SS) | | 38.1 % |
| Terphenyl-d14 (SS) | | 64.7 % |
| Phenol-d6 (SS) | | 63.4 % |
| 2-Fluorophenol (SS) | | 65.8 % |
| 2,4,6-Tribromophenol (SS) | | 40.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /2
ANALYZED BY : WWY
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 10
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Acenaphthylene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Anthracene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Benzo(a)anthracene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Benzo(b)fluoranthene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Benzo(k)fluoranthene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Benzo(g,h,i)perylene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Benzo(a)pyrene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Benzyl alcohol | 7.95 mg/Kg | < 7.95 mg/Kg |
| Bis(2-chloroethoxy)methane | 4.03 mg/Kg | < 4.03 mg/Kg |
| Bis(2-chloroethyl)ether | 4.03 mg/Kg | < 4.03 mg/Kg |
| Bis(2-chloroisopropyl)ether | 4.03 mg/Kg | < 4.03 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 4.03 mg/Kg | < 4.03 mg/Kg |
| 4-Bromophenyl phenyl ether | 4.03 mg/Kg | < 4.03 mg/Kg |



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REPORT NUMBER : D97-8277-13 PAGE 2
ANALYSIS METHOD : EPA 8270B /2

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 4.03 mg/Kg | < 4.03 mg/Kg |
| Carbazole | 4.03 mg/Kg | < 4.03 mg/Kg |
| 4-Chloroaniline | 4.03 mg/Kg | < 4.03 mg/Kg |
| 2-Chloronaphthalene | 4.03 mg/Kg | < 4.03 mg/Kg |
| 4-Chlorophenyl phenyl ether | 4.03 mg/Kg | < 4.03 mg/Kg |
| Chrysene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Dibenz(a,h)anthracene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Dibenzofuran | 4.03 mg/Kg | < 4.03 mg/Kg |
| Di-n-butylphthalate | 4.03 mg/Kg | < 4.03 mg/Kg |
| 1,2-Dichlorobenzene | 4.03 mg/Kg | < 4.03 mg/Kg |
| 1,3-Dichlorobenzene | 4.03 mg/Kg | < 4.03 mg/Kg |
| 1,4-Dichlorobenzene | 4.03 mg/Kg | < 4.03 mg/Kg |
| 3,3'-Dichlorobenzidine | 4.03 mg/Kg | < 4.03 mg/Kg |
| Diethyl phthalate | 4.03 mg/Kg | < 4.03 mg/Kg |
| Dimethyl phthalate | 4.03 mg/Kg | < 4.03 mg/Kg |
| 2,4-Dinitrotoluene | 4.03 mg/Kg | < 4.03 mg/Kg |
| 2,6-Dinitrotoluene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Di-n-octylphthalate | 4.03 mg/Kg | < 4.03 mg/Kg |
| Fluoranthene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Fluorene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Hexachlorobenzene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Hexachlorobutadiene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Hexachlorocyclopentadiene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Hexachloroethane | 4.03 mg/Kg | < 4.03 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Isophorone | 4.03 mg/Kg | < 4.03 mg/Kg |

REPORT NUMBER : D97-8277-13
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Naphthalene | 4.03 mg/Kg | < 4.03 mg/Kg |
| 2-Nitroaniline | 20.2 mg/Kg | < 20.2 mg/Kg |
| 3-Nitroaniline | 20.2 mg/Kg | < 20.2 mg/Kg |
| 4-Nitroaniline | 20.2 mg/Kg | < 20.2 mg/Kg |
| Nitrobenzene | 4.03 mg/Kg | < 4.03 mg/Kg |
| N-Nitrosodiphenylamine | 4.03 mg/Kg | < 4.03 mg/Kg |
| N-Nitrosodi-n-propylamine | 4.03 mg/Kg | < 4.03 mg/Kg |
| Phenanthrene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Pyrene | 4.03 mg/Kg | < 4.03 mg/Kg |
| 1,2,4-Trichlorobenzene | 4.03 mg/Kg | < 4.03 mg/Kg |
| Benzoic acid | 9.78 mg/Kg | < 9.78 mg/Kg |
| 4-Chloro-3-methylphenol | 7.95 mg/Kg | < 7.95 mg/Kg |
| 2-Chlorophenol | 4.03 mg/Kg | < 4.03 mg/Kg |
| 2,4-Dichlorophenol | 4.03 mg/Kg | < 4.03 mg/Kg |
| 2,4-Dimethylphenol | 4.03 mg/Kg | < 4.03 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 20.2 mg/Kg | < 20.2 mg/Kg |
| 2,4-Dinitrophenol | 20.2 mg/Kg | < 20.2 mg/Kg |
| 2-Methylphenol | 4.03 mg/Kg | < 4.03 mg/Kg |
| 4-Methylphenol | 4.03 mg/Kg | < 4.03 mg/Kg |
| 2-Nitrophenol | 4.03 mg/Kg | < 4.03 mg/Kg |
| 4-Nitrophenol | 9.78 mg/Kg | < 9.78 mg/Kg |
| Pentachlorophenol | 20.2 mg/Kg | < 20.2 mg/Kg |
| Phenol | 4.03 mg/Kg | < 4.03 mg/Kg |
| 2,4,5-Trichlorophenol | 20.2 mg/Kg | < 20.2 mg/Kg |
| 2,4,6-Trichlorophenol | 4.03 mg/Kg | < 4.03 mg/Kg |



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REPORT NUMBER : D97-8277-13
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 56.8 % |
| 2-Fluorobiphenyl (SS) | | 125 % |
| Terphenyl-d14 (SS) | | 61.1 % |
| Phenol-d6 (SS) | | 73.0 % |
| 2-Fluorophenol (SS) | | 81.4 % |
| 2,4,6-Tribromophenol (SS) | | 47.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-13
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-16 LF-SB24(6.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : TC
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.40 mg/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-17 LF-SB28(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 7-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.9 mg/Kg | 7600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.594 mg/Kg | 2.69 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 117 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.36 mg/Kg | 0.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-14 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59 mg/Kg | 26900 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 8.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 7.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.19 mg/Kg | 2.82 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 297 mg/Kg | 16300 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.143 mg/Kg | < 0.143 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-14 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 119 mg/Kg | 1280 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Magnesium | /1 | 59.4 mg/Kg | 2770 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Manganese | /1 | 1.2 mg/Kg | 134 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Sodium | /1 | 2970 mg/Kg | < 2970 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Nickel | /1 | 1.2 mg/Kg | 11.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Lead | /1 | 0.59 mg/Kg | 8.16 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Antimony | /1 | 5.9 mg/Kg | < 5.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-14 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.19 mg/Kg | < 1.19 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 13.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.56 mg/Kg | 42.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-17 LF-SB28(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 7-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 84.2 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154040I | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-17 LF-SB26(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 7-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 59.4 µg/Kg | < 59.4 µg/Kg |
| 2,4-DB | 59.4 µg/Kg | < 59.4 µg/Kg |
| 2,4,5-T | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2,4,5-TP(Silvex) | 5.94 µg/Kg | < 5.94 µg/Kg |
| Dalapon | 238 µg/Kg | < 238 µg/Kg |
| Dicamba | 5.94 µg/Kg | < 5.94 µg/Kg |
| Dichlorprop | 59.4 µg/Kg | < 59.4 µg/Kg |
| Dinoseb | 23.8 µg/Kg | < 23.8 µg/Kg |
| MCPA | 23800 µg/Kg | < 23800 µg/Kg |
| MCPP | 23800 µg/Kg | < 23800 µg/Kg |



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REPORT NUMBER : D97-8277-14
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 73.6 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-17 LF-SB28(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 7-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.17 µg/Kg | < 3.17 µg/Kg |
| Alpha-BHC | 2.38 µg/Kg | < 2.38 µg/Kg |
| Beta-BHC | 4.76 µg/Kg | < 4.76 µg/Kg |
| Delta-BHC | 7.14 µg/Kg | < 7.14 µg/Kg |
| Gamma-BHC(Lindane) | 3.17 µg/Kg | < 3.17 µg/Kg |
| Chlordane | 11.1 µg/Kg | < 11.1 µg/Kg |
| 4,4'-DDD | 8.73 µg/Kg | < 8.73 µg/Kg |
| 4,4'-DDE | 3.17 µg/Kg | < 3.17 µg/Kg |
| 4,4'-DDT | 9.52 µg/Kg | < 9.52 µg/Kg |
| Dieldrin | 1.59 µg/Kg | < 1.59 µg/Kg |
| Endosulfan I | 11.1 µg/Kg | < 11.1 µg/Kg |
| Endosulfan II | 3.17 µg/Kg | < 3.17 µg/Kg |
| Endosulfan Sulfate | 52.4 µg/Kg | < 52.4 µg/Kg |
| Endrin | 4.76 µg/Kg | < 4.76 µg/Kg |



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REPORT NUMBER : D97-8277-14
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.2 µg/Kg | < 18.2 µg/Kg |
| Heptachlor | 2.38 µg/Kg | < 2.38 µg/Kg |
| Heptachlor Epoxide | 65.8 µg/Kg | < 65.8 µg/Kg |
| Methoxychlor | 140 µg/Kg | < 140 µg/Kg |
| Toxaphene | 190 µg/Kg | < 190 µg/Kg |
| Aroclor-1016 | 51.6 µg/Kg | < 51.6 µg/Kg |
| Aroclor-1221 | 51.6 µg/Kg | < 51.6 µg/Kg |
| Aroclor-1232 | 51.6 µg/Kg | < 51.6 µg/Kg |
| Aroclor-1242 | 51.6 µg/Kg | < 51.6 µg/Kg |
| Aroclor-1248 | 51.6 µg/Kg | < 51.6 µg/Kg |
| Aroclor-1254 | 51.6 µg/Kg | < 51.6 µg/Kg |
| Aroclor-1260 | 51.6 µg/Kg | < 51.6 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 99.9 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 75.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-17 LF-SB28(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 7-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.8 µg/Kg | < 23.8 µg/Kg |
| Acrylonitrile | 5.94 µg/Kg | < 5.94 µg/Kg |
| Benzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromochloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromodichloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromoform | 5.94 µg/Kg | < 5.94 µg/Kg |
| Carbon disulfide | 5.94 µg/Kg | < 5.94 µg/Kg |
| Carbon tetrachloride | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloroform | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Chlorotoluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 4-Chlorotoluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Chloroethylvinyl ether | 11.9 µg/Kg | < 11.9 µg/Kg |
| Dibromochloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |



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REPORT NUMBER : D97-8277-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.7 µg/Kg | < 29.7 µg/Kg |
| 1,2-Dibromoethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,4-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,4-Dichloro-2-butene | 119 µg/Kg | < 119 µg/Kg |
| 1,1-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| cis-1,2-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,2-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2,2-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| cis-1,3-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,3-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Ethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Hexanone | 59.4 µg/Kg | < 59.4 µg/Kg |
| Bromomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Dibromomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Butanone | 119 µg/Kg | < 119 µg/Kg |
| Iodomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Methylene chloride | 5.94 µg/Kg | < 5.94 µg/Kg |
| 4-Methyl-2-pentanone | 119 µg/Kg | < 119 µg/Kg |

REPORT NUMBER : D97-8277-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Tetrachloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Toluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,1-Trichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,2-Trichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Trichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Trichlorofluoromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,3-Trichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Vinyl acetate | 59.4 µg/Kg | < 59.4 µg/Kg |
| Vinyl chloride | 2.38 µg/Kg | < 2.38 µg/Kg |
| m,p-Xylene | 5.94 µg/Kg | < 5.94 µg/Kg |
| o-Xylene | 5.94 µg/Kg | < 5.94 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 92.6 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 91.2 % |

Applicable results are reported on Dry Weight basis.



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Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-17 LF-SB28(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 7-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-17 LF-SB28(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 7-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Acenaphthylene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Anthracene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(a)anthracene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(b)fluoranthene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(k)fluoranthene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(g,h,i)perylene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzo(a)pyrene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzyl alcohol | 0.787 mg/Kg | < 0.787 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.400 mg/Kg | < 0.400 mg/Kg |
| Bis(2-chloroethyl)ether | 0.400 mg/Kg | < 0.400 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.400 mg/Kg | < 0.400 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.400 mg/Kg | < 0.400 mg/Kg |



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REPORT NUMBER : D97-8277-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| Carbazole | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Chloroaniline | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2-Chloronaphthalene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.400 mg/Kg | < 0.400 mg/Kg |
| Chrysene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Dibenz(a,h)anthracene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Dibenzofuran | 0.400 mg/Kg | < 0.400 mg/Kg |
| Di-n-butylphthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| 1,2-Dichlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 1,3-Dichlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 1,4-Dichlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.400 mg/Kg | < 0.400 mg/Kg |
| Diethyl phthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| Dimethyl phthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,4-Dinitrotoluene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,6-Dinitrotoluene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Di-n-octylphthalate | 0.400 mg/Kg | < 0.400 mg/Kg |
| Fluoranthene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Fluorene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Hexachlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Hexachlorobutadiene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Hexachlorocyclopentadiene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Hexachloroethane | 0.400 mg/Kg | < 0.400 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Isophorone | 0.400 mg/Kg | < 0.400 mg/Kg |

REPORT NUMBER : D97-8277-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Naphthalene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2-Nitroaniline | 2.00 mg/Kg | < 2.00 mg/Kg |
| 3-Nitroaniline | 2.00 mg/Kg | < 2.00 mg/Kg |
| 4-Nitroaniline | 2.00 mg/Kg | < 2.00 mg/Kg |
| Nitrobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| N-Nitrosodiphenylamine | 0.400 mg/Kg | < 0.400 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.400 mg/Kg | < 0.400 mg/Kg |
| Phenanthrene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Pyrene | 0.400 mg/Kg | < 0.400 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.400 mg/Kg | < 0.400 mg/Kg |
| Benzoic acid | 0.969 mg/Kg | < 0.969 mg/Kg |
| 4-Chloro-3-methylphenol | 0.787 mg/Kg | < 0.787 mg/Kg |
| 2-Chlorophenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,4-Dichlorophenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,4-Dimethylphenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.00 mg/Kg | < 2.00 mg/Kg |
| 2,4-Dinitrophenol | 2.00 mg/Kg | < 2.00 mg/Kg |
| 2-Methylphenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Methylphenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2-Nitrophenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 4-Nitrophenol | 0.969 mg/Kg | < 0.969 mg/Kg |
| Pentachlorophenol | 2.00 mg/Kg | < 2.00 mg/Kg |
| Phenol | 0.400 mg/Kg | < 0.400 mg/Kg |
| 2,4,5-Trichlorophenol | 2.00 mg/Kg | < 2.00 mg/Kg |
| 2,4,6-Trichlorophenol | 0.400 mg/Kg | < 0.400 mg/Kg |

REPORT NUMBER : D97-8277-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 62.6 % |
| 2-Fluorobiphenyl (SS) | | 60.2 % |
| Terphenyl-d14 (SS) | | 63.2 % |
| Phenol-d6 (SS) | | 68.0 % |
| 2-Fluorophenol (SS) | | 67.2 % |
| 2,4,6-Tribromophenol (SS) | | 66.6 % |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-14
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-17 LF-SB28(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 7-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.



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REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-8 LF-SB28(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 12.2 mg/Kg | 4900 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.610 mg/Kg | 1.52 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 5.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.37 mg/Kg | 0.40 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-15 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 1520 mg/Kg | 73900 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 5.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 4.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.22 mg/Kg | 1.94 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 12.2 mg/Kg | 10300 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.146 mg/Kg | < 0.146 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-15 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 122 mg/Kg | 848 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Magnesium | /1 | 61.0 mg/Kg | 1800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Manganese | /1 | 1.2 mg/Kg | 52.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Sodium | /1 | 3050 mg/Kg | < 3050 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Nickel | /1 | 1.2 mg/Kg | 6.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Lead | /1 | 0.61 mg/Kg | 7.23 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Antimony | /1 | 6.1 mg/Kg | < 6.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-15 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.22 mg/Kg | < 1.22 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 8.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.66 mg/Kg | 25.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-18 LF-SB28(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 82.0 % |

Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB
QC Batch No : 154040I

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-18 LF-SB28(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 61.0 µg/Kg | < 61.0 µg/Kg |
| 2,4-DB | 61.0 µg/Kg | < 61.0 µg/Kg |
| 2,4,5-T | 6.10 µg/Kg | < 6.10 µg/Kg |
| 2,4,5-TP(Silvex) | 6.10 µg/Kg | < 6.10 µg/Kg |
| Dalapon | 244 µg/Kg | < 244 µg/Kg |
| Dicamba | 6.10 µg/Kg | < 6.10 µg/Kg |
| Dichlorprop | 61.0 µg/Kg | < 61.0 µg/Kg |
| Dinoseb | 24.4 µg/Kg | < 24.4 µg/Kg |
| MCPA | 24400 µg/Kg | < 24400 µg/Kg |
| MCPP | 24400 µg/Kg | < 24400 µg/Kg |



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REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 76.3 % |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-18 LF-SB28(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.26 µg/Kg | < 3.26 µg/Kg |
| Alpha-BHC | 2.44 µg/Kg | < 2.44 µg/Kg |
| Beta-BHC | 4.89 µg/Kg | < 4.89 µg/Kg |
| Delta-BHC | 7.33 µg/Kg | < 7.33 µg/Kg |
| Gamma-BHC(Lindane) | 3.26 µg/Kg | < 3.26 µg/Kg |
| Chlordane | 11.4 µg/Kg | < 11.4 µg/Kg |
| 4,4'-DDD | 8.96 µg/Kg | < 8.96 µg/Kg |
| 4,4'-DDE | 3.26 µg/Kg | < 3.26 µg/Kg |
| 4,4'-DDT | 9.78 µg/Kg | < 9.78 µg/Kg |
| Dieldrin | 1.63 µg/Kg | < 1.63 µg/Kg |
| Endosulfan I | 11.4 µg/Kg | < 11.4 µg/Kg |
| Endosulfan II | 3.26 µg/Kg | < 3.26 µg/Kg |
| Endosulfan Sulfate | 53.8 µg/Kg | < 53.8 µg/Kg |
| Endrin | 4.89 µg/Kg | < 4.89 µg/Kg |



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REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.7 | µg/Kg | < | 18.7 | µg/Kg |
| Heptachlor | 2.44 | µg/Kg | < | 2.44 | µg/Kg |
| Heptachlor Epoxide | 67.6 | µg/Kg | < | 67.6 | µg/Kg |
| Methoxychlor | 143 | µg/Kg | < | 143 | µg/Kg |
| Toxaphene | 196 | µg/Kg | < | 196 | µg/Kg |
| Aroclor-1016 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1221 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1232 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1242 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1248 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1254 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1260 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 94.8 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 76.3 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S703174-8 LF-SB28(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.4 µg/Kg | < 24.4 µg/Kg |
| Acrylonitrile | 6.10 µg/Kg | < 6.10 µg/Kg |
| Benzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Bromobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Bromochloromethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Bromodichloromethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Bromoform | 6.10 µg/Kg | < 6.10 µg/Kg |
| Carbon disulfide | 6.10 µg/Kg | < 6.10 µg/Kg |
| Carbon tetrachloride | 6.10 µg/Kg | < 6.10 µg/Kg |
| Chlorobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Chloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Chloroform | 6.10 µg/Kg | < 6.10 µg/Kg |
| 2-Chlorotoluene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 4-Chlorotoluene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 2-Chloroethylvinyl ether | 12.2 µg/Kg | < 12.2 µg/Kg |
| Dibromochloromethane | 6.10 µg/Kg | < 6.10 µg/Kg |



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REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.5 µg/Kg | < 30.5 µg/Kg |
| 1,2-Dibromoethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2-Dichlorobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,3-Dichlorobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,4-Dichlorobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| trans-1,4-Dichloro-2-butene | 122 µg/Kg | < 122 µg/Kg |
| 1,1-Dichloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2-Dichloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1-Dichloroethene | 6.10 µg/Kg | < 6.10 µg/Kg |
| cis-1,2-Dichloroethene | 6.10 µg/Kg | < 6.10 µg/Kg |
| trans-1,2-Dichloroethene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2-Dichloropropane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 2,2-Dichloropropane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1-Dichloropropene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,3-Dichloropropane | 6.10 µg/Kg | < 6.10 µg/Kg |
| cis-1,3-Dichloropropene | 6.10 µg/Kg | < 6.10 µg/Kg |
| trans-1,3-Dichloropropene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Ethylbenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 2-Hexanone | 61.0 µg/Kg | < 61.0 µg/Kg |
| Bromomethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Chloromethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Dibromomethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 2-Butanone | 122 µg/Kg | < 122 µg/Kg |
| Iodomethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Methylene chloride | 6.10 µg/Kg | < 6.10 µg/Kg |
| 4-Methyl-2-pentanone | 122 µg/Kg | < 122 µg/Kg |

REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Tetrachloroethene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Toluene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1,1-Trichloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,1,2-Trichloroethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| Trichloroethene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Trichlorofluoromethane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2,3-Trichloropropane | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.10 µg/Kg | < 6.10 µg/Kg |
| Vinyl acetate | 61.0 µg/Kg | < 61.0 µg/Kg |
| Vinyl chloride | 2.44 µg/Kg | < 2.44 µg/Kg |
| m,p-Xylene | 6.10 µg/Kg | < 6.10 µg/Kg |
| o-Xylene | 6.10 µg/Kg | < 6.10 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 94.4 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 95.0 % |

Applicable results are reported on Dry Weight basis.



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# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-18 LF-SB28(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-18 LF-SB28(5.C)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Acenaphthylene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Anthracene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Benzo(a)anthracene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Benzo(b)fluoranthene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Benzo(k)fluoranthene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Benzo(g,h,i)perylene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Benzo(a)pyrene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Benzyl alcohol | 0.801 mg/Kg | < 0.801 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.406 mg/Kg | < 0.406 mg/Kg |
| Bis(2-chloroethyl)ether | 0.406 mg/Kg | < 0.406 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.406 mg/Kg | < 0.406 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.406 mg/Kg | < 0.406 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.406 mg/Kg | < 0.406 mg/Kg |



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REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.406 mg/Kg | < 0.406 mg/Kg |
| Carbazole | 0.406 mg/Kg | < 0.406 mg/Kg |
| 4-Chloroaniline | 0.406 mg/Kg | < 0.406 mg/Kg |
| 2-Chloronaphthalene | 0.406 mg/Kg | < 0.406 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.406 mg/Kg | < 0.406 mg/Kg |
| Chrysene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Dibenz(a,h)anthracene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Dibenzofuran | 0.406 mg/Kg | < 0.406 mg/Kg |
| Di-n-butylphthalate | 0.406 mg/Kg | < 0.406 mg/Kg |
| 1,2-Dichlorobenzene | 0.406 mg/Kg | < 0.406 mg/Kg |
| 1,3-Dichlorobenzene | 0.406 mg/Kg | < 0.406 mg/Kg |
| 1,4-Dichlorobenzene | 0.406 mg/Kg | < 0.406 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.406 mg/Kg | < 0.406 mg/Kg |
| Diethyl phthalate | 0.406 mg/Kg | < 0.406 mg/Kg |
| Dimethyl phthalate | 0.406 mg/Kg | < 0.406 mg/Kg |
| 2,4-Dinitrotoluene | 0.406 mg/Kg | < 0.406 mg/Kg |
| 2,6-Dinitrotoluene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Di-n-octylphthalate | 0.406 mg/Kg | < 0.406 mg/Kg |
| Fluoranthene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Fluorene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Hexachlorobenzene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Hexachlorobutadiene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Hexachlorocyclopentadiene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Hexachloroethane | 0.406 mg/Kg | < 0.406 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Isophorone | 0.406 mg/Kg | < 0.406 mg/Kg |

REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Naphthalene | 0.406 mg/Kg | < 0.406 mg/Kg |
| 2-Nitroaniline | 2.04 mg/Kg | < 2.04 mg/Kg |
| 3-Nitroaniline | 2.04 mg/Kg | < 2.04 mg/Kg |
| 4-Nitroaniline | 2.04 mg/Kg | < 2.04 mg/Kg |
| Nitrobenzene | 0.406 mg/Kg | < 0.406 mg/Kg |
| N-Nitrosodiphenylamine | 0.406 mg/Kg | < 0.406 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.406 mg/Kg | < 0.406 mg/Kg |
| Phenanthrene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Pyrene | 0.406 mg/Kg | < 0.406 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.406 mg/Kg | < 0.406 mg/Kg |
| Benzoic acid | 0.985 mg/Kg | < 0.985 mg/Kg |
| 4-Chloro-3-methylphenol | 0.801 mg/Kg | < 0.801 mg/Kg |
| 2-Chlorophenol | 0.406 mg/Kg | < 0.406 mg/Kg |
| 2,4-Dichlorophenol | 0.406 mg/Kg | < 0.406 mg/Kg |
| 2,4-Dimethylphenol | 0.406 mg/Kg | < 0.406 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.04 mg/Kg | < 2.04 mg/Kg |
| 2,4-Dinitrophenol | 2.04 mg/Kg | < 2.04 mg/Kg |
| 2-Methylphenol | 0.406 mg/Kg | < 0.406 mg/Kg |
| 4-Methylphenol | 0.406 mg/Kg | < 0.406 mg/Kg |
| 2-Nitrophenol | 0.406 mg/Kg | < 0.406 mg/Kg |
| 4-Nitrophenol | 0.985 mg/Kg | < 0.985 mg/Kg |
| Pentachlorophenol | 2.04 mg/Kg | < 2.04 mg/Kg |
| Phenol | 0.406 mg/Kg | < 0.406 mg/Kg |
| 2,4,5-Trichlorophenol | 2.04 mg/Kg | < 2.04 mg/Kg |
| 2,4,6-Trichlorophenol | 0.406 mg/Kg | < 0.406 mg/Kg |



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REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 59.2 % |
| 2-Fluorobiphenyl (SS) | | 53.4 % |
| Terphenyl-d14 (SS) | | 1.0 % |
| Phenol-d6 (SS) | | 64.2 % |
| 2-Fluorophenol (SS) | | 65.7 % |
| 2,4,6-Tribromophenol (SS) | | 5.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-8 LF-SB28(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /2
ANALYZED BY : WWY
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 10
METHOD FACTOR : 1.0
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Acenaphthylene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Anthracene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Benzo(a)anthracene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Benzo(b)fluoranthene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Benzo(k)fluoranthene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Benzo(g,h,i)perylene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Benzo(a)pyrene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Benzyl alcohol | 8.01 mg/Kg | < 8.01 mg/Kg |
| Bis(2-chloroethoxy)methane | 4.06 mg/Kg | < 4.06 mg/Kg |
| Bis(2-chloroethyl)ether | 4.06 mg/Kg | < 4.06 mg/Kg |
| Bis(2-chloroisopropyl)ether | 4.06 mg/Kg | < 4.06 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 4.06 mg/Kg | < 4.06 mg/Kg |
| 4-Bromophenyl phenyl ether | 4.06 mg/Kg | < 4.06 mg/Kg |



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REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 4.06 mg/Kg | < 4.06 mg/Kg |
| Carbazole | 4.06 mg/Kg | < 4.06 mg/Kg |
| 4-Chloroaniline | 4.06 mg/Kg | < 4.06 mg/Kg |
| 2-Chloronaphthalene | 4.06 mg/Kg | < 4.06 mg/Kg |
| 4-Chlorophenyl phenyl ether | 4.06 mg/Kg | < 4.06 mg/Kg |
| Chrysene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Dibenz(a,h)anthracene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Dibenzofuran | 4.06 mg/Kg | < 4.06 mg/Kg |
| Di-n-butylphthalate | 4.06 mg/Kg | < 4.06 mg/Kg |
| 1,2-Dichlorobenzene | 4.06 mg/Kg | < 4.06 mg/Kg |
| 1,3-Dichlorobenzene | 4.06 mg/Kg | < 4.06 mg/Kg |
| 1,4-Dichlorobenzene | 4.06 mg/Kg | < 4.06 mg/Kg |
| 3,3'-Dichlorobenzidine | 4.06 mg/Kg | < 4.06 mg/Kg |
| Diethyl phthalate | 4.06 mg/Kg | < 4.06 mg/Kg |
| Dimethyl phthalate | 4.06 mg/Kg | < 4.06 mg/Kg |
| 2,4-Dinitrotoluene | 4.06 mg/Kg | < 4.06 mg/Kg |
| 2,6-Dinitrotoluene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Di-n-octylphthalate | 4.06 mg/Kg | < 4.06 mg/Kg |
| Fluoranthene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Fluorene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Hexachlorobenzene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Hexachlorobutadiene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Hexachlorocyclopentadiene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Hexachloroethane | 4.06 mg/Kg | < 4.06 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Isophorone | 4.06 mg/Kg | < 4.06 mg/Kg |

REPORT NUMBER : D97-8277-15
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Naphthalene | 4.06 mg/Kg | < 4.06 mg/Kg |
| 2-Nitroaniline | 20.4 mg/Kg | < 20.4 mg/Kg |
| 3-Nitroaniline | 20.4 mg/Kg | < 20.4 mg/Kg |
| 4-Nitroaniline | 20.4 mg/Kg | < 20.4 mg/Kg |
| Nitrobenzene | 4.06 mg/Kg | < 4.06 mg/Kg |
| N-Nitrosodiphenylamine | 4.06 mg/Kg | < 4.06 mg/Kg |
| N-Nitrosodi-n-propylamine | 4.06 mg/Kg | < 4.06 mg/Kg |
| Phenanthrene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Pyrene | 4.06 mg/Kg | < 4.06 mg/Kg |
| 1,2,4-Trichlorobenzene | 4.06 mg/Kg | < 4.06 mg/Kg |
| Benzoic acid | 9.85 mg/Kg | < 9.85 mg/Kg |
| 4-Chloro-3-methylphenol | 8.01 mg/Kg | < 8.01 mg/Kg |
| 2-Chlorophenol | 4.06 mg/Kg | < 4.06 mg/Kg |
| 2,4-Dichlorophenol | 4.06 mg/Kg | < 4.06 mg/Kg |
| 2,4-Dimethylphenol | 4.06 mg/Kg | < 4.06 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 20.4 mg/Kg | < 20.4 mg/Kg |
| 2,4-Dinitrophenol | 20.4 mg/Kg | < 20.4 mg/Kg |
| 2-Methylphenol | 4.06 mg/Kg | < 4.06 mg/Kg |
| 4-Methylphenol | 4.06 mg/Kg | < 4.06 mg/Kg |
| 2-Nitrophenol | 4.06 mg/Kg | < 4.06 mg/Kg |
| 4-Nitrophenol | 9.85 mg/Kg | < 9.85 mg/Kg |
| Pentachlorophenol | 20.4 mg/Kg | < 20.4 mg/Kg |
| Phenol | 4.06 mg/Kg | < 4.06 mg/Kg |
| 2,4,5-Trichlorophenol | 20.4 mg/Kg | < 20.4 mg/Kg |
| 2,4,6-Trichlorophenol | 4.06 mg/Kg | < 4.06 mg/Kg |



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REPORT NUMBER : D97-8277-15 PAGE 4
ANALYSIS METHOD : EPA 8270B /2

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 47.0 % |
| 2-Fluorobiphenyl (SS) | | 120 % |
| Terphenyl-d14 (SS) | | 53.0 % |
| Phenol-d6 (SS) | | 64.8 % |
| 2-Fluorophenol (SS) | | 75.4 % |
| 2,4,6-Tribromophenol (SS) | | 44.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-15
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-8 LF-SB28(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

TENTATIVELY IDENTIFIED COMPOUNDS

| COMPOUND | RETENTION TIME | FRACTION | RESULT |
|---|---|---|---|
| Diisononyl benzenedicarboxylic aci | 21.62 | ABN | 0.49 mg/Kg |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-19 LF-SB28(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 12.1 mg/Kg | 3560 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.604 mg/Kg | 3.62 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 4.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.36 mg/Kg | < 0.36 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-16 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 1510 mg/Kg | 88600 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 2.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 5.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.21 mg/Kg | 1.62 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 302 mg/Kg | 17600 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.145 mg/Kg | < 0.145 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-16 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 121 mg/Kg | 516 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Magnesium | /1 | 60.4 mg/Kg | 1000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Manganese | /1 | 1.2 mg/Kg | 12.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Sodium | /1 | 3020 mg/Kg | < 3020 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Nickel | /1 | 1.2 mg/Kg | 4.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Lead | /1 | 0.60 mg/Kg | 5.55 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Antimony | /1 | 6.0 mg/Kg | < 6.0 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-16 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.21 mg/Kg | < 1.21 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 9.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.62 mg/Kg | 31.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-19 LF-SB28(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 82.8 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154040I | | | |

Applicable results are reported on Dry Weight basis.

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REPORT NUMBER : D97-8277-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-19 LF-SB28(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 60.4 µg/Kg | < 60.4 µg/Kg |
| 2,4-DB | 60.4 µg/Kg | < 60.4 µg/Kg |
| 2,4,5-T | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2,4,5-TP(Silvex) | 6.04 µg/Kg | < 6.04 µg/Kg |
| Dalapon | 242 µg/Kg | < 242 µg/Kg |
| Dicamba | 6.04 µg/Kg | < 6.04 µg/Kg |
| Dichlorprop | 60.4 µg/Kg | < 60.4 µg/Kg |
| Dinoseb | 24.2 µg/Kg | < 24.2 µg/Kg |
| MCPA | 24200 µg/Kg | < 24200 µg/Kg |
| MCPP | 24200 µg/Kg | < 24200 µg/Kg |



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REPORT NUMBER : D97-8277-16
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 72.1 % |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-19 LF-SB28(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.26 µg/Kg | < 3.26 µg/Kg |
| Alpha-BHC | 2.44 µg/Kg | < 2.44 µg/Kg |
| Beta-BHC | 4.88 µg/Kg | < 4.88 µg/Kg |
| Delta-BHC | 7.33 µg/Kg | < 7.33 µg/Kg |
| Gamma-BHC(Lindane) | 3.26 µg/Kg | < 3.26 µg/Kg |
| Chlordane | 11.4 µg/Kg | < 11.4 µg/Kg |
| 4,4'-DDD | 8.95 µg/Kg | < 8.95 µg/Kg |
| 4,4'-DDE | 3.26 µg/Kg | < 3.26 µg/Kg |
| 4,4'-DDT | 9.77 µg/Kg | < 9.77 µg/Kg |
| Dieldrin | 1.63 µg/Kg | < 1.63 µg/Kg |
| Endosulfan I | 11.4 µg/Kg | < 11.4 µg/Kg |
| Endosulfan II | 3.26 µg/Kg | < 3.26 µg/Kg |
| Endosulfan Sulfate | 53.7 µg/Kg | < 53.7 µg/Kg |
| Endrin | 4.88 µg/Kg | < 4.88 µg/Kg |



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REPORT NUMBER : D97-8277-16
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.7 | µg/Kg | < | 18.7 | µg/Kg |
| Heptachlor | 2.44 | µg/Kg | < | 2.44 | µg/Kg |
| Heptachlor Epoxide | 67.6 | µg/Kg | < | 67.6 | µg/Kg |
| Methoxychlor | 143 | µg/Kg | < | 143 | µg/Kg |
| Toxaphene | 195 | µg/Kg | < | 195 | µg/Kg |
| Aroclor-1016 | 52.9 | µg/Kg | < | 52.9 | µg/Kg |
| Aroclor-1221 | 52.9 | µg/Kg | < | 52.9 | µg/Kg |
| Aroclor-1232 | 52.9 | µg/Kg | < | 52.9 | µg/Kg |
| Aroclor-1242 | 52.9 | µg/Kg | < | 52.9 | µg/Kg |
| Aroclor-1248 | 52.9 | µg/Kg | < | 52.9 | µg/Kg |
| Aroclor-1254 | 52.9 | µg/Kg | < | 52.9 | µg/Kg |
| Aroclor-1260 | 52.9 | µg/Kg | < | 52.9 | µg/Kg |

| QUALITY CONTROL DATA | | | |
|---|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED | |
| Decachlorobiphenyl (SS) | | 128 | % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 78.2 | % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-19 LF-SB28(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.2 µg/Kg | < 24.2 µg/Kg |
| Acrylonitrile | 6.04 µg/Kg | < 6.04 µg/Kg |
| Benzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Bromobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Bromochloromethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Bromodichloromethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Bromoform | 6.04 µg/Kg | < 6.04 µg/Kg |
| Carbon disulfide | 6.04 µg/Kg | < 6.04 µg/Kg |
| Carbon tetrachloride | 6.04 µg/Kg | < 6.04 µg/Kg |
| Chlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Chloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Chloroform | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2-Chlorotoluene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 4-Chlorotoluene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2-Chloroethylvinyl ether | 12.1 µg/Kg | < 12.1 µg/Kg |
| Dibromochloromethane | 6.04 µg/Kg | < 6.04 µg/Kg |



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REPORT NUMBER : D97-8277-16
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.2 µg/Kg | < 30.2 µg/Kg |
| 1,2-Dibromoethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2-Dichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,3-Dichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,4-Dichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| trans-1,4-Dichloro-2-butene | 121 µg/Kg | < 121 µg/Kg |
| 1,1-Dichloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2-Dichloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1-Dichloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| cis-1,2-Dichloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| trans-1,2-Dichloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2-Dichloropropane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2,2-Dichloropropane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1-Dichloropropene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,3-Dichloropropane | 6.04 µg/Kg | < 6.04 µg/Kg |
| cis-1,3-Dichloropropene | 6.04 µg/Kg | < 6.04 µg/Kg |
| trans-1,3-Dichloropropene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Ethylbenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2-Hexanone | 60.4 µg/Kg | < 60.4 µg/Kg |
| Bromomethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Chloromethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Dibromomethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2-Butanone | 121 µg/Kg | < 121 µg/Kg |
| Iodomethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Methylene chloride | 6.04 µg/Kg | < 6.04 µg/Kg |
| 4-Methyl-2-pentanone | 121 µg/Kg | < 121 µg/Kg |

REPORT NUMBER : D97-8277-16
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Tetrachloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Toluene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1,1-Trichloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1,2-Trichloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Trichloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Trichlorofluoromethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2,3-Trichloropropane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.04 µg/Kg | 12.6 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.04 µg/Kg | 29.5 µg/Kg |
| Vinyl acetate | 60.4 µg/Kg | < 60.4 µg/Kg |
| Vinyl chloride | 2.42 µg/Kg | < 2.42 µg/Kg |
| m,p-Xylene | 6.04 µg/Kg | < 6.04 µg/Kg |
| o-Xylene | 6.04 µg/Kg | < 6.04 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 94.4 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 93.2 % |

Applicable results are reported on Dry Weight basis.



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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-19 LF-SB28(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Benzene, 1-ethyl-2-methyl- | 10.67 | VOA | 6.4 ug/Kg |
| Benzene, 1-methyl-4-(1-methylethyl | 11.77 | VOA | 6.8 ug/Kg |
| Benzene, 2-ethyl-1,4-dimethyl- | 11.85 | VOA | 8.6 ug/Kg |
| Benzene, (1-methyl-1-propenyl)-, ( | 11.98 | VOA | 6.9 ug/Kg |
| Benzene, 1-methyl-2-(2-propenyl)- | 12.55 | VOA | 9.1 ug/Kg |
| Benzene, 2-ethenyl-1,4-dimethyl- | 12.71 | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
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REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-19 LF-SB28(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Acenaphthylene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Anthracene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Benzo(a)anthracene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Benzo(b)fluoranthene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Benzo(k)fluoranthene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Benzo(g,h,i)perylene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Benzo(a)pyrene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Benzyl alcohol | 0.801 mg/Kg | < 0.801 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.407 mg/Kg | < 0.407 mg/Kg |
| Bis(2-chloroethyl)ether | 0.407 mg/Kg | < 0.407 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.407 mg/Kg | < 0.407 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.407 mg/Kg | < 0.407 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.407 mg/Kg | < 0.407 mg/Kg |



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REPORT NUMBER : D97-8277-16
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.407 mg/Kg | < 0.407 mg/Kg |
| Carbazole | 0.407 mg/Kg | < 0.407 mg/Kg |
| 4-Chloroaniline | 0.407 mg/Kg | < 0.407 mg/Kg |
| 2-Chloronaphthalene | 0.407 mg/Kg | < 0.407 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.407 mg/Kg | < 0.407 mg/Kg |
| Chrysene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Dibenz(a,h)anthracene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Dibenzofuran | 0.407 mg/Kg | < 0.407 mg/Kg |
| Di-n-butylphthalate | 0.407 mg/Kg | < 0.407 mg/Kg |
| 1,2-Dichlorobenzene | 0.407 mg/Kg | < 0.407 mg/Kg |
| 1,3-Dichlorobenzene | 0.407 mg/Kg | < 0.407 mg/Kg |
| 1,4-Dichlorobenzene | 0.407 mg/Kg | < 0.407 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.407 mg/Kg | < 0.407 mg/Kg |
| Diethyl phthalate | 0.407 mg/Kg | < 0.407 mg/Kg |
| Dimethyl phthalate | 0.407 mg/Kg | < 0.407 mg/Kg |
| 2,4-Dinitrotoluene | 0.407 mg/Kg | < 0.407 mg/Kg |
| 2,6-Dinitrotoluene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Di-n-octylphthalate | 0.407 mg/Kg | < 0.407 mg/Kg |
| Fluoranthene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Fluorene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Hexachlorobenzene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Hexachlorobutadiene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Hexachlorocyclopentadiene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Hexachloroethane | 0.407 mg/Kg | < 0.407 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Isophorone | 0.407 mg/Kg | < 0.407 mg/Kg |

REPORT NUMBER : D97-8277-16
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Naphthalene | 0.407 mg/Kg | < 0.407 mg/Kg |
| 2-Nitroaniline | 2.03 mg/Kg | < 2.03 mg/Kg |
| 3-Nitroaniline | 2.03 mg/Kg | < 2.03 mg/Kg |
| 4-Nitroaniline | 2.03 mg/Kg | < 2.03 mg/Kg |
| Nitrobenzene | 0.407 mg/Kg | < 0.407 mg/Kg |
| N-Nitrosodiphenylamine | 0.407 mg/Kg | < 0.407 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.407 mg/Kg | < 0.407 mg/Kg |
| Phenanthrene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Pyrene | 0.407 mg/Kg | < 0.407 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.407 mg/Kg | < 0.407 mg/Kg |
| Benzoic acid | 0.986 mg/Kg | < 0.986 mg/Kg |
| 4-Chloro-3-methylphenol | 0.801 mg/Kg | < 0.801 mg/Kg |
| 2-Chlorophenol | 0.407 mg/Kg | < 0.407 mg/Kg |
| 2,4-Dichlorophenol | 0.407 mg/Kg | < 0.407 mg/Kg |
| 2,4-Dimethylphenol | 0.407 mg/Kg | < 0.407 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.03 mg/Kg | < 2.03 mg/Kg |
| 2,4-Dinitrophenol | 2.03 mg/Kg | < 2.03 mg/Kg |
| 2-Methylphenol | 0.407 mg/Kg | < 0.407 mg/Kg |
| 4-Methylphenol | 0.407 mg/Kg | < 0.407 mg/Kg |
| 2-Nitrophenol | 0.407 mg/Kg | < 0.407 mg/Kg |
| 4-Nitrophenol | 0.986 mg/Kg | < 0.986 mg/Kg |
| Pentachlorophenol | 2.03 mg/Kg | < 2.03 mg/Kg |
| Phenol | 0.407 mg/Kg | < 0.407 mg/Kg |
| 2,4,5-Trichlorophenol | 2.03 mg/Kg | < 2.03 mg/Kg |
| 2,4,6-Trichlorophenol | 0.407 mg/Kg | < 0.407 mg/Kg |



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REPORT NUMBER : D97-8277-16
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 57.8 % |
| 2-Fluorobiphenyl (SS) | | 51.8 % |
| Terphenyl-d14 (SS) | | 56.7 % |
| Phenol-d6 (SS) | | 62.0 % |
| 2-Fluorophenol (SS) | | 64.0 % |
| 2,4,6-Tribromophenol (SS) | | 58.7 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-16
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-19 LF-SB28(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.40 mg/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-20 LF-SB35(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 12.1 mg/Kg | 4980 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.604 mg/Kg | 0.685 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 66.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.36 mg/Kg | < 0.36 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-17 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 60 mg/Kg | 2750 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 5.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 8.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.21 mg/Kg | < 1.21 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 12.1 mg/Kg | 11600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.145 mg/Kg | < 0.145 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-17 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 121 | mg/Kg | 1100 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 60.4 | mg/Kg | 1680 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.2 | mg/Kg | 37.0 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 121 | mg/Kg | 128 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.2 | mg/Kg | 7.3 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.60 | mg/Kg | 4.93 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 6.0 | mg/Kg | < 6.0 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-17 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.21 mg/Kg | < 1.21 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 12.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.62 mg/Kg | 46.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-20 LF-SB35(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 82.8 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154040I | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-20 LF-SB35(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 60.4 µg/Kg | < 60.4 µg/Kg |
| 2,4-DB | 60.4 µg/Kg | < 60.4 µg/Kg |
| 2,4,5-T | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2,4,5-TP(Silvex) | 6.04 µg/Kg | < 6.04 µg/Kg |
| Dalapon | 242 µg/Kg | < 242 µg/Kg |
| Dicamba | 6.04 µg/Kg | < 6.04 µg/Kg |
| Dichlorprop | 60.4 µg/Kg | < 60.4 µg/Kg |
| Dinoseb | 24.2 µg/Kg | < 24.2 µg/Kg |
| MCPA | 24200 µg/Kg | < 24200 µg/Kg |
| MCPP | 24200 µg/Kg | < 24200 µg/Kg |



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REPORT NUMBER : D97-8277-17
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 74.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-20 LF-SB35(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 680
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.28 µg/Kg | < 3.28 µg/Kg |
| Alpha-BHC | 2.46 µg/Kg | < 2.46 µg/Kg |
| Beta-BHC | 4.92 µg/Kg | < 4.92 µg/Kg |
| Delta-BHC | 7.38 µg/Kg | < 7.38 µg/Kg |
| Gamma-BHC(Lindane) | 3.28 µg/Kg | < 3.28 µg/Kg |
| Chlordane | 11.5 µg/Kg | < 11.5 µg/Kg |
| 4,4'-DDD | 9.02 µg/Kg | < 9.02 µg/Kg |
| 4,4'-DDE | 3.28 µg/Kg | < 3.28 µg/Kg |
| 4,4'-DDT | 9.84 µg/Kg | < 9.84 µg/Kg |
| Dieldrin | 1.64 µg/Kg | < 1.64 µg/Kg |
| Endosulfan I | 11.5 µg/Kg | < 11.5 µg/Kg |
| Endosulfan II | 3.28 µg/Kg | < 3.28 µg/Kg |
| Endosulfan Sulfate | 54.1 µg/Kg | < 54.1 µg/Kg |
| Endrin | 4.92 µg/Kg | < 4.92 µg/Kg |

REPORT NUMBER : D97-8277-17
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.9 | µg/Kg | < | 18.9 | µg/Kg |
| Heptachlor | 2.46 | µg/Kg | < | 2.46 | µg/Kg |
| Heptachlor Epoxide | 68.1 | µg/Kg | < | 68.1 | µg/Kg |
| Methoxychlor | 144 | µg/Kg | < | 144 | µg/Kg |
| Toxaphene | 197 | µg/Kg | < | 197 | µg/Kg |
| Aroclor-1016 | 53.3 | µg/Kg | < | 53.3 | µg/Kg |
| Aroclor-1221 | 53.3 | µg/Kg | < | 53.3 | µg/Kg |
| Aroclor-1232 | 53.3 | µg/Kg | < | 53.3 | µg/Kg |
| Aroclor-1242 | 53.3 | µg/Kg | < | 53.3 | µg/Kg |
| Aroclor-1248 | 53.3 | µg/Kg | < | 53.3 | µg/Kg |
| Aroclor-1254 | 53.3 | µg/Kg | < | 53.3 | µg/Kg |
| Aroclor-1260 | 53.3 | µg/Kg | < | 53.3 | µg/Kg |

| QUALITY CONTROL DATA | | | |
|---|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED | |
| Decachlorobiphenyl (SS) | | 122 | % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 80.8 | % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-20 LF-SB35(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121C01

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.2 µg/Kg | < 24.2 µg/Kg |
| Acrylonitrile | 6.04 µg/Kg | < 6.04 µg/Kg |
| Benzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Bromobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Bromochloromethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Bromodichloromethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Bromoform | 6.04 µg/Kg | < 6.04 µg/Kg |
| Carbon disulfide | 6.04 µg/Kg | < 6.04 µg/Kg |
| Carbon tetrachloride | 6.04 µg/Kg | < 6.04 µg/Kg |
| Chlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Chloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Chloroform | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2-Chlorotoluene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 4-Chlorotoluene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2-Chloroethylvinyl ether | 12.1 µg/Kg | < 12.1 µg/Kg |
| Dibromochloromethane | 6.04 µg/Kg | < 6.04 µg/Kg |



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REPORT NUMBER : D97-8277-17
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.2 µg/Kg | < 30.2 µg/Kg |
| 1,2-Dibromoethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2-Dichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,3-Dichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,4-Dichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| trans-1,4-Dichloro-2-butene | 121 µg/Kg | < 121 µg/Kg |
| 1,1-Dichloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2-Dichloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1-Dichloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| cis-1,2-Dichloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| trans-1,2-Dichloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2-Dichloropropane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2,2-Dichloropropane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1-Dichloropropene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,3-Dichloropropane | 6.04 µg/Kg | < 6.04 µg/Kg |
| cis-1,3-Dichloropropene | 6.04 µg/Kg | < 6.04 µg/Kg |
| trans-1,3-Dichloropropene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Ethylbenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2-Hexanone | 60.4 µg/Kg | < 60.4 µg/Kg |
| Bromomethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Chloromethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Dibromomethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 2-Butanone | 121 µg/Kg | < 121 µg/Kg |
| Iodomethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Methylene chloride | 6.04 µg/Kg | < 6.04 µg/Kg |
| 4-Methyl-2-pentanone | 121 µg/Kg | < 121 µg/Kg |

REPORT NUMBER : D97-8277-17
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Tetrachloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Toluene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1,1-Trichloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,1,2-Trichloroethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| Trichloroethene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Trichlorofluoromethane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2,3-Trichloropropane | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.04 µg/Kg | < 6.04 µg/Kg |
| Vinyl acetate | 60.4 µg/Kg | < 60.4 µg/Kg |
| Vinyl chloride | 2.42 µg/Kg | < 2.42 µg/Kg |
| m,p-Xylene | 6.04 µg/Kg | < 6.04 µg/Kg |
| o-Xylene | 6.04 µg/Kg | < 6.04 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 91.8 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 95.0 % |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-20 LF-SB35(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-20 LF-SB35(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Acenaphthylene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Anthracene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Benzo(a)anthracene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Benzo(b)fluoranthene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Benzo(k)fluoranthene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Benzo(g,h,i)perylene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Benzo(a)pyrene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Benzyl alcohol | 0.785 mg/Kg | < 0.785 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.399 mg/Kg | < 0.399 mg/Kg |
| Bis(2-chloroethyl)ether | 0.399 mg/Kg | < 0.399 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.399 mg/Kg | < 0.399 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.399 mg/Kg | < 0.399 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.399 mg/Kg | < 0.399 mg/Kg |



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REPORT NUMBER : D97-8277-17
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.399 mg/Kg | < 0.399 mg/Kg |
| Carbazole | 0.399 mg/Kg | < 0.399 mg/Kg |
| 4-Chloroaniline | 0.399 mg/Kg | < 0.399 mg/Kg |
| 2-Chloronaphthalene | 0.399 mg/Kg | < 0.399 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.399 mg/Kg | < 0.399 mg/Kg |
| Chrysene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Dibenz(a,h)anthracene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Dibenzofuran | 0.399 mg/Kg | < 0.399 mg/Kg |
| Di-n-butylphthalate | 0.399 mg/Kg | < 0.399 mg/Kg |
| 1,2-Dichlorobenzene | 0.399 mg/Kg | < 0.399 mg/Kg |
| 1,3-Dichlorobenzene | 0.399 mg/Kg | < 0.399 mg/Kg |
| 1,4-Dichlorobenzene | 0.399 mg/Kg | < 0.399 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.399 mg/Kg | < 0.399 mg/Kg |
| Diethyl phthalate | 0.399 mg/Kg | < 0.399 mg/Kg |
| Dimethyl phthalate | 0.399 mg/Kg | < 0.399 mg/Kg |
| 2,4-Dinitrotoluene | 0.399 mg/Kg | < 0.399 mg/Kg |
| 2,6-Dinitrotoluene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Di-n-octylphthalate | 0.399 mg/Kg | < 0.399 mg/Kg |
| Fluoranthene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Fluorene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Hexachlorobenzene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Hexachlorobutadiene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Hexachlorocyclopentadiene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Hexachloroethane | 0.399 mg/Kg | < 0.399 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Isophorone | 0.399 mg/Kg | < 0.399 mg/Kg |

REPORT NUMBER : D97-8277-17
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Naphthalene | 0.399 mg/Kg | < 0.399 mg/Kg |
| 2-Nitroaniline | 1.99 mg/Kg | < 1.99 mg/Kg |
| 3-Nitroaniline | 1.99 mg/Kg | < 1.99 mg/Kg |
| 4-Nitroaniline | 1.99 mg/Kg | < 1.99 mg/Kg |
| Nitrobenzene | 0.399 mg/Kg | < 0.399 mg/Kg |
| N-Nitrosodiphenylamine | 0.399 mg/Kg | < 0.399 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.399 mg/Kg | < 0.399 mg/Kg |
| Phenanthrene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Pyrene | 0.399 mg/Kg | < 0.399 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.399 mg/Kg | < 0.399 mg/Kg |
| Benzoic acid | 0.966 mg/Kg | < 0.966 mg/Kg |
| 4-Chloro-3-methylphenol | 0.785 mg/Kg | < 0.785 mg/Kg |
| 2-Chlorophenol | 0.399 mg/Kg | < 0.399 mg/Kg |
| 2,4-Dichlorophenol | 0.399 mg/Kg | < 0.399 mg/Kg |
| 2,4-Dimethylphenol | 0.399 mg/Kg | < 0.399 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.99 mg/Kg | < 1.99 mg/Kg |
| 2,4-Dinitrophenol | 1.99 mg/Kg | < 1.99 mg/Kg |
| 2-Methylphenol | 0.399 mg/Kg | < 0.399 mg/Kg |
| 4-Methylphenol | 0.399 mg/Kg | < 0.399 mg/Kg |
| 2-Nitrophenol | 0.399 mg/Kg | < 0.399 mg/Kg |
| 4-Nitrophenol | 0.966 mg/Kg | < 0.966 mg/Kg |
| Pentachlorophenol | 1.99 mg/Kg | < 1.99 mg/Kg |
| Phenol | 0.399 mg/Kg | < 0.399 mg/Kg |
| 2,4,5-Trichlorophenol | 1.99 mg/Kg | < 1.99 mg/Kg |
| 2,4,6-Trichlorophenol | 0.399 mg/Kg | < 0.399 mg/Kg |



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REPORT NUMBER : D97-8277-17
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 59.6 % |
| 2-Fluorobiphenyl (SS) | | 52.8 % |
| Terphenyl-d14 (SS) | | 55.7 % |
| Phenol-d6 (SS) | | 56.8 % |
| 2-Fluorophenol (SS) | | 58.6 % |
| 2,4,6-Tribromophenol (SS) | | 55.3 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-17
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-20 LF-SB35(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.40 mg/Kg |

Applicable results are reported on Dry Weight basis.

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04559

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 12.3 mg/Kg | 6050 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.614 mg/Kg | 2.10 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 71.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.37 mg/Kg | < 0.37 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-18



| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 61 mg/Kg | 26700 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 4.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 9.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.23 mg/Kg | < 1.23 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 307 mg/Kg | 15100 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.147 mg/Kg | < 0.147 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-18 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 123 mg/Kg | 1350 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Magnesium | /1 | 61.3 mg/Kg | 2000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Manganese | /1 | 1.2 mg/Kg | 203 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Sodium | /1 | 123 mg/Kg | 284 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Nickel | /1 | 1.2 mg/Kg | 9.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Lead | /1 | 0.61 mg/Kg | 5.20 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Antimony | /1 | 6.1 mg/Kg | < 6.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-18 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.23 mg/Kg | < 1.23 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 16.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.68 mg/Kg | 41.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 81.5 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154041J | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 24-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 61.3 µg/Kg | < 61.3 µg/Kg |
| 2,4-DB | 61.3 µg/Kg | < 61.3 µg/Kg |
| 2,4,5-T | 6.13 µg/Kg | < 6.13 µg/Kg |
| 2,4,5-TP(Silvex) | 6.13 µg/Kg | < 6.13 µg/Kg |
| Dalapon | 245 µg/Kg | < 245 µg/Kg |
| Dicamba | 6.13 µg/Kg | < 6.13 µg/Kg |
| Dichlorprop | 61.3 µg/Kg | < 61.3 µg/Kg |
| Dinoseb | 24.5 µg/Kg | < 24.5 µg/Kg |
| MCPA | 24500 µg/Kg | < 24500 µg/Kg |
| MCPP | 24500 µg/Kg | < 24500 µg/Kg |



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REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 76.6 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 680
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.33 µg/Kg | < 3.33 µg/Kg |
| Alpha-BHC | 2.50 µg/Kg | < 2.50 µg/Kg |
| Beta-BHC | 5.00 µg/Kg | < 5.00 µg/Kg |
| Delta-BHC | 7.50 µg/Kg | < 7.50 µg/Kg |
| Gamma-BHC(Lindane) | 3.33 µg/Kg | < 3.33 µg/Kg |
| Chlordane | 11.7 µg/Kg | < 11.7 µg/Kg |
| 4,4'-DDD | 9.16 µg/Kg | < 9.16 µg/Kg |
| 4,4'-DDE | 3.33 µg/Kg | < 3.33 µg/Kg |
| 4,4'-DDT | 10.00 µg/Kg | < 10.00 µg/Kg |
| Dieldrin | 1.67 µg/Kg | < 1.67 µg/Kg |
| Endosulfan I | 11.7 µg/Kg | < 11.7 µg/Kg |
| Endosulfan II | 3.33 µg/Kg | < 3.33 µg/Kg |
| Endosulfan Sulfate | 55.0 µg/Kg | < 55.0 µg/Kg |
| Endrin | 5.00 µg/Kg | < 5.00 µg/Kg |

REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 19.2 | µg/Kg | < | 19.2 | µg/Kg |
| Heptachlor | 2.50 | µg/Kg | < | 2.50 | µg/Kg |
| Heptachlor Epoxide | 69.1 | µg/Kg | < | 69.1 | µg/Kg |
| Methoxychlor | 147 | µg/Kg | < | 147 | µg/Kg |
| Toxaphene | 200 | µg/Kg | < | 200 | µg/Kg |
| Aroclor-1016 | 54.2 | µg/Kg | < | 54.2 | µg/Kg |
| Aroclor-1221 | 54.2 | µg/Kg | < | 54.2 | µg/Kg |
| Aroclor-1232 | 54.2 | µg/Kg | < | 54.2 | µg/Kg |
| Aroclor-1242 | 54.2 | µg/Kg | < | 54.2 | µg/Kg |
| Aroclor-1248 | 54.2 | µg/Kg | < | 54.2 | µg/Kg |
| Aroclor-1254 | 54.2 | µg/Kg | < | 54.2 | µg/Kg |
| Aroclor-1260 | 54.2 | µg/Kg | < | 54.2 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 127 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 76.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707121001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.5 µg/Kg | < 24.5 µg/Kg |
| Acrylonitrile | 6.13 µg/Kg | < 6.13 µg/Kg |
| Benzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| Bromobenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| Bromochloromethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| Bromodichloromethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| Bromoform | 6.13 µg/Kg | < 6.13 µg/Kg |
| Carbon disulfide | 6.13 µg/Kg | < 6.13 µg/Kg |
| Carbon tetrachloride | 6.13 µg/Kg | < 6.13 µg/Kg |
| Chlorobenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| Chloroethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| Chloroform | 6.13 µg/Kg | < 6.13 µg/Kg |
| 2-Chlorotoluene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 4-Chlorotoluene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 2-Chloroethylvinyl ether | 12.3 µg/Kg | < 12.3 µg/Kg |
| Dibromochloromethane | 6.13 µg/Kg | < 6.13 µg/Kg |

REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.7 µg/Kg | < 30.7 µg/Kg |
| 1,2-Dibromoethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,2-Dichlorobenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,3-Dichlorobenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,4-Dichlorobenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| trans-1,4-Dichloro-2-butene | 123 µg/Kg | < 123 µg/Kg |
| 1,1-Dichloroethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,2-Dichloroethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,1-Dichloroethene | 6.13 µg/Kg | < 6.13 µg/Kg |
| cis-1,2-Dichloroethene | 6.13 µg/Kg | < 6.13 µg/Kg |
| trans-1,2-Dichloroethene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,2-Dichloropropane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 2,2-Dichloropropane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,1-Dichloropropene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,3-Dichloropropane | 6.13 µg/Kg | < 6.13 µg/Kg |
| cis-1,3-Dichloropropene | 6.13 µg/Kg | < 6.13 µg/Kg |
| trans-1,3-Dichloropropene | 6.13 µg/Kg | < 6.13 µg/Kg |
| Ethylbenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 2-Hexanone | 61.3 µg/Kg | < 61.3 µg/Kg |
| Bromomethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| Chloromethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| Dibromomethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 2-Butanone | 123 µg/Kg | < 123 µg/Kg |
| Iodomethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| Methylene chloride | 6.13 µg/Kg | < 6.13 µg/Kg |
| 4-Methyl-2-pentanone | 123 µg/Kg | < 123 µg/Kg |

REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| Tetrachloroethene | 6.13 µg/Kg | < 6.13 µg/Kg |
| Toluene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,1,1-Trichloroethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,1,2-Trichloroethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| Trichloroethene | 6.13 µg/Kg | < 6.13 µg/Kg |
| Trichlorofluoromethane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,2,3-Trichloropropane | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.13 µg/Kg | < 6.13 µg/Kg |
| Vinyl acetate | 61.3 µg/Kg | < 61.3 µg/Kg |
| Vinyl chloride | 2.45 µg/Kg | < 2.45 µg/Kg |
| m,p-Xylene | 6.13 µg/Kg | < 6.13 µg/Kg |
| o-Xylene | 6.13 µg/Kg | < 6.13 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 95.6 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 93.4 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707121001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Acenaphthylene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Anthracene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Benzo(a)anthracene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Benzo(b)fluoranthene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Benzo(k)fluoranthene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Benzo(g,h,i)perylene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Benzo(a)pyrene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Benzyl alcohol | 0.798 mg/Kg | < 0.798 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.405 mg/Kg | < 0.405 mg/Kg |
| Bis(2-chloroethyl)ether | 0.405 mg/Kg | < 0.405 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.405 mg/Kg | < 0.405 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.405 mg/Kg | < 0.405 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.405 mg/Kg | < 0.405 mg/Kg |



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REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.405 mg/Kg | < 0.405 mg/Kg |
| Carbazole | 0.405 mg/Kg | < 0.405 mg/Kg |
| 4-Chloroaniline | 0.405 mg/Kg | < 0.405 mg/Kg |
| 2-Chloronaphthalene | 0.405 mg/Kg | < 0.405 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.405 mg/Kg | < 0.405 mg/Kg |
| Chrysene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Dibenz(a,h)anthracene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Dibenzofuran | 0.405 mg/Kg | < 0.405 mg/Kg |
| Di-n-butylphthalate | 0.405 mg/Kg | < 0.405 mg/Kg |
| 1,2-Dichlorobenzene | 0.405 mg/Kg | < 0.405 mg/Kg |
| 1,3-Dichlorobenzene | 0.405 mg/Kg | < 0.405 mg/Kg |
| 1,4-Dichlorobenzene | 0.405 mg/Kg | < 0.405 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.405 mg/Kg | < 0.405 mg/Kg |
| Diethyl phthalate | 0.405 mg/Kg | < 0.405 mg/Kg |
| Dimethyl phthalate | 0.405 mg/Kg | < 0.405 mg/Kg |
| 2,4-Dinitrotoluene | 0.405 mg/Kg | < 0.405 mg/Kg |
| 2,6-Dinitrotoluene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Di-n-octylphthalate | 0.405 mg/Kg | < 0.405 mg/Kg |
| Fluoranthene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Fluorene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Hexachlorobenzene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Hexachlorobutadiene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Hexachlorocyclopentadiene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Hexachloroethane | 0.405 mg/Kg | < 0.405 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Isophorone | 0.405 mg/Kg | < 0.405 mg/Kg |

REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Naphthalene | 0.405 mg/Kg | < 0.405 mg/Kg |
| 2-Nitroaniline | 2.02 mg/Kg | < 2.02 mg/Kg |
| 3-Nitroaniline | 2.02 mg/Kg | < 2.02 mg/Kg |
| 4-Nitroaniline | 2.02 mg/Kg | < 2.02 mg/Kg |
| Nitrobenzene | 0.405 mg/Kg | < 0.405 mg/Kg |
| N-Nitrosodiphenylamine | 0.405 mg/Kg | < 0.405 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.405 mg/Kg | < 0.405 mg/Kg |
| Phenanthrene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Pyrene | 0.405 mg/Kg | < 0.405 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.405 mg/Kg | < 0.405 mg/Kg |
| Benzoic acid | 0.982 mg/Kg | < 0.982 mg/Kg |
| 4-Chloro-3-methylphenol | 0.798 mg/Kg | < 0.798 mg/Kg |
| 2-Chlorophenol | 0.405 mg/Kg | < 0.405 mg/Kg |
| 2,4-Dichlorophenol | 0.405 mg/Kg | < 0.405 mg/Kg |
| 2,4-Dimethylphenol | 0.405 mg/Kg | < 0.405 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.02 mg/Kg | < 2.02 mg/Kg |
| 2,4-Dinitrophenol | 2.02 mg/Kg | < 2.02 mg/Kg |
| 2-Methylphenol | 0.405 mg/Kg | < 0.405 mg/Kg |
| 4-Methylphenol | 0.405 mg/Kg | < 0.405 mg/Kg |
| 2-Nitrophenol | 0.405 mg/Kg | < 0.405 mg/Kg |
| 4-Nitrophenol | 0.982 mg/Kg | < 0.982 mg/Kg |
| Pentachlorophenol | 2.02 mg/Kg | < 2.02 mg/Kg |
| Phenol | 0.405 mg/Kg | < 0.405 mg/Kg |
| 2,4,5-Trichlorophenol | 2.02 mg/Kg | < 2.02 mg/Kg |
| 2,4,6-Trichlorophenol | 0.405 mg/Kg | < 0.405 mg/Kg |



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REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 64.7 % |
| 2-Fluorobiphenyl (SS) | | 59.5 % |
| Terphenyl-d14 (SS) | | 64.1 % |
| Phenol-d6 (SS) | | 64.7 % |
| 2-Fluorophenol (SS) | | 67.1 % |
| 2,4,6-Tribromophenol (SS) | | 60.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /2
ANALYZED BY : WWY
ANALYZED ON : 14-JUL-1997
DILUTION FACTOR : 10
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Acenaphthylene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Anthracene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Benzo(a)anthracene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Benzo(b)fluoranthene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Benzo(k)fluoranthene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Benzo(g,h,i)perylene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Benzo(a)pyrene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Benzyl alcohol | 7.98 mg/Kg | < 7.98 mg/Kg |
| Bis(2-chloroethoxy)methane | 4.05 mg/Kg | < 4.05 mg/Kg |
| Bis(2-chloroethyl)ether | 4.05 mg/Kg | < 4.05 mg/Kg |
| Bis(2-chloroisopropyl)ether | 4.05 mg/Kg | < 4.05 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 4.05 mg/Kg | < 4.05 mg/Kg |
| 4-Bromophenyl phenyl ether | 4.05 mg/Kg | < 4.05 mg/Kg |



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REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 4.05 mg/Kg | < 4.05 mg/Kg |
| Carbazole | 4.05 mg/Kg | < 4.05 mg/Kg |
| 4-Chloroaniline | 4.05 mg/Kg | < 4.05 mg/Kg |
| 2-Chloronaphthalene | 4.05 mg/Kg | < 4.05 mg/Kg |
| 4-Chlorophenyl phenyl ether | 4.05 mg/Kg | < 4.05 mg/Kg |
| Chrysene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Dibenz(a,h)anthracene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Dibenzofuran | 4.05 mg/Kg | < 4.05 mg/Kg |
| Di-n-butylphthalate | 4.05 mg/Kg | < 4.05 mg/Kg |
| 1,2-Dichlorobenzene | 4.05 mg/Kg | < 4.05 mg/Kg |
| 1,3-Dichlorobenzene | 4.05 mg/Kg | < 4.05 mg/Kg |
| 1,4-Dichlorobenzene | 4.05 mg/Kg | < 4.05 mg/Kg |
| 3,3'-Dichlorobenzidine | 4.05 mg/Kg | < 4.05 mg/Kg |
| Diethyl phthalate | 4.05 mg/Kg | < 4.05 mg/Kg |
| Dimethyl phthalate | 4.05 mg/Kg | < 4.05 mg/Kg |
| 2,4-Dinitrotoluene | 4.05 mg/Kg | < 4.05 mg/Kg |
| 2,6-Dinitrotoluene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Di-n-octylphthalate | 4.05 mg/Kg | < 4.05 mg/Kg |
| Fluoranthene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Fluorene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Hexachlorobenzene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Hexachlorobutadiene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Hexachlorocyclopentadiene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Hexachloroethane | 4.05 mg/Kg | < 4.05 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Isophorone | 4.05 mg/Kg | < 4.05 mg/Kg |

REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Naphthalene | 4.05 mg/Kg | < 4.05 mg/Kg |
| 2-Nitroaniline | 20.2 mg/Kg | < 20.2 mg/Kg |
| 3-Nitroaniline | 20.2 mg/Kg | < 20.2 mg/Kg |
| 4-Nitroaniline | 20.2 mg/Kg | < 20.2 mg/Kg |
| Nitrobenzene | 4.05 mg/Kg | < 4.05 mg/Kg |
| N-Nitrosodiphenylamine | 4.05 mg/Kg | < 4.05 mg/Kg |
| N-Nitrosodi-n-propylamine | 4.05 mg/Kg | < 4.05 mg/Kg |
| Phenanthrene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Pyrene | 4.05 mg/Kg | < 4.05 mg/Kg |
| 1,2,4-Trichlorobenzene | 4.05 mg/Kg | < 4.05 mg/Kg |
| Benzoic acid | 9.82 mg/Kg | < 9.82 mg/Kg |
| 4-Chloro-3-methylphenol | 7.98 mg/Kg | < 7.98 mg/Kg |
| 2-Chlorophenol | 4.05 mg/Kg | < 4.05 mg/Kg |
| 2,4-Dichlorophenol | 4.05 mg/Kg | < 4.05 mg/Kg |
| 2,4-Dimethylphenol | 4.05 mg/Kg | < 4.05 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 20.2 mg/Kg | < 20.2 mg/Kg |
| 2,4-Dinitrophenol | 20.2 mg/Kg | < 20.2 mg/Kg |
| 2-Methylphenol | 4.05 mg/Kg | < 4.05 mg/Kg |
| 4-Methylphenol | 4.05 mg/Kg | < 4.05 mg/Kg |
| 2-Nitrophenol | 4.05 mg/Kg | < 4.05 mg/Kg |
| 4-Nitrophenol | 9.82 mg/Kg | < 9.82 mg/Kg |
| Pentachlorophenol | 20.2 mg/Kg | < 20.2 mg/Kg |
| Phenol | 4.05 mg/Kg | < 4.05 mg/Kg |
| 2,4,5-Trichlorophenol | 20.2 mg/Kg | < 20.2 mg/Kg |
| 2,4,6-Trichlorophenol | 4.05 mg/Kg | < 4.05 mg/Kg |



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REPORT NUMBER : D97-8277-18
ANALYSIS METHOD : EPA 8270B /2



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 53.1 % |
| 2-Fluorobiphenyl (SS) | | 123 % |
| Terphenyl-d14 (SS) | | 65.3 % |
| Phenol-d6 (SS) | | 68.6 % |
| 2-Fluorophenol (SS) | | 78.4 % |
| 2,4,6-Tribromophenol (SS) | | 51.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-18
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-21 LF-SB35(5.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 1-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| Diisononyl benzenedicarboxylic aci | 21.46 | ABN | 0.98 mg/Kg |
| Dicyclohex benzenedicarboxylic aci | 21.62 | ABN | 0.63 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-19
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-22 LF-SB35(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.62 mg/Kg | < 0.62 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 12.4 mg/Kg | 7150 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.621 mg/Kg | 2.81 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 9.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.37 mg/Kg | 0.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-19 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 62 mg/Kg | 6280 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cadmium | /1 | 0.62 mg/Kg | < 0.62 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Cobalt | /1 | 1.2 mg/Kg | 12.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Chromium | /1 | 0.6 mg/Kg | 8.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Copper | /1 | 1.24 mg/Kg | 2.66 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Iron | /1 | 311 mg/Kg | 18300 mg/Kg |
| Dilution Factor : 25<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Mercury | /1 | 0.149 mg/Kg | < 0.149 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 8-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 10-JUL-1997 by CGJ<br>QC Batch No : AC159-26 | | | |



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REPORT NUMBER : D97-8277-19 PAGE 3

| TOTAL METALS | | | | | | |
|---|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | | |
| Potassium | /1 | 124 | mg/Kg | 1250 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Magnesium | /1 | 62.1 | mg/Kg | 2390 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Manganese | /1 | 1.2 | mg/Kg | 124 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Sodium | /1 | 124 | mg/Kg | 1140 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Nickel | /1 | 1.2 | mg/Kg | 10.4 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Lead | /1 | 0.62 | mg/Kg | 6.44 | | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |
| Antimony | /1 | 6.2 | mg/Kg | < | 6.2 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | | |

REPORT NUMBER : D97-8277-19 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.62 mg/Kg | < 0.62 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.24 mg/Kg | < 1.24 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 9.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.73 mg/Kg | 61.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-19
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-22 LF-SB35(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 80.5 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154041J | | | |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-19
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-22 LF-SB35(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 62.1 µg/Kg | < 62.1 µg/Kg |
| 2,4-DB | 62.1 µg/Kg | < 62.1 µg/Kg |
| 2,4,5-T | 6.21 µg/Kg | < 6.21 µg/Kg |
| 2,4,5-TP(Silvex) | 6.21 µg/Kg | < 6.21 µg/Kg |
| Dalapon | 248 µg/Kg | < 248 µg/Kg |
| Dicamba | 6.21 µg/Kg | < 6.21 µg/Kg |
| Dichlorprop | 62.1 µg/Kg | < 62.1 µg/Kg |
| Dinoseb | 24.8 µg/Kg | < 24.8 µg/Kg |
| MCPA | 24800 µg/Kg | < 24800 µg/Kg |
| MCPP | 24800 µg/Kg | < 24800 µg/Kg |



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REPORT NUMBER : D97-8277-19
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 76.9 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-19
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-22 LF-SB35(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 660
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.26 µg/Kg | < 3.26 µg/Kg |
| Alpha-BHC | 2.45 µg/Kg | < 2.45 µg/Kg |
| Beta-BHC | 4.90 µg/Kg | < 4.90 µg/Kg |
| Delta-BHC | 7.35 µg/Kg | < 7.35 µg/Kg |
| Gamma-BHC(Lindane) | 3.26 µg/Kg | < 3.26 µg/Kg |
| Chlordane | 11.4 µg/Kg | < 11.4 µg/Kg |
| 4,4'-DDD | 8.98 µg/Kg | < 8.98 µg/Kg |
| 4,4'-DDE | 3.26 µg/Kg | < 3.26 µg/Kg |
| 4,4'-DDT | 9.79 µg/Kg | < 9.79 µg/Kg |
| Dieldrin | 1.63 µg/Kg | < 1.63 µg/Kg |
| Endosulfan I | 11.4 µg/Kg | < 11.4 µg/Kg |
| Endosulfan II | 3.26 µg/Kg | < 3.26 µg/Kg |
| Endosulfan Sulfate | 53.9 µg/Kg | < 53.9 µg/Kg |
| Endrin | 4.90 µg/Kg | < 4.90 µg/Kg |



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REPORT NUMBER : D97-8277-19
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.8 | µg/Kg | < | 18.8 | µg/Kg |
| Heptachlor | 2.45 | µg/Kg | < | 2.45 | µg/Kg |
| Heptachlor Epoxide | 67.7 | µg/Kg | < | 67.7 | µg/Kg |
| Methoxychlor | 144 | µg/Kg | < | 144 | µg/Kg |
| Toxaphene | 196 | µg/Kg | < | 196 | µg/Kg |
| Aroclor-1016 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1221 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1232 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1242 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1248 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1254 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |
| Aroclor-1260 | 53.0 | µg/Kg | < | 53.0 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 127 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 79.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-19
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-22 LF-SB35(8.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707112004

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.8 µg/Kg | < 24.8 µg/Kg |
| Acrylonitrile | 6.21 µg/Kg | < 6.21 µg/Kg |
| Benzene | 6.21 µg/Kg | < 6.21 µg/Kg |
| Bromobenzene | 6.21 µg/Kg | < 6.21 µg/Kg |
| Bromochloromethane--- | 6.21 µg/Kg | < 6.21 µg/Kg |
| Bromodichloromethane | 6.21 µg/Kg | < 6.21 µg/Kg |
| Bromoform | 6.21 µg/Kg | < 6.21 µg/Kg |
| Carbon disulfide | 6.21 µg/Kg | < 6.21 µg/Kg |
| Carbon tetrachloride | 6.21 µg/Kg | < 6.21 µg/Kg |
| Chlorobenzene | 6.21 µg/Kg | < 6.21 µg/Kg |
| Chloroethane | 6.21 µg/Kg | < 6.21 µg/Kg |
| Chloroform | 6.21 µg/Kg | < 6.21 µg/Kg |
| 2-Chlorotoluene | 6.21 µg/Kg | < 6.21 µg/Kg |
| 4-Chlorotoluene | 6.21 µg/Kg | < 6.21 µg/Kg |
| 2-Chloroethylvinyl ether | 12.4 µg/Kg | < 12.4 µg/Kg |
| Dibromochloromethane | 6.21 µg/Kg | < 6.21 µg/Kg |



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REPORT NUMBER : D97-8277-19
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.21 µg/Kg | < 6.21 µg/Kg |
| Tetrachloroethene | 6.21 µg/Kg | < 6.21 µg/Kg |
| Toluene | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,1,1-Trichloroethane | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,1,2-Trichloroethane | 6.21 µg/Kg | < 6.21 µg/Kg |
| Trichloroethene | 6.21 µg/Kg | < 6.21 µg/Kg |
| Trichlorofluoromethane | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,2,3-Trichloropropane | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.21 µg/Kg | < 6.21 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.21 µg/Kg | < 6.21 µg/Kg |
| Vinyl acetate | 62.1 µg/Kg | < 62.1 µg/Kg |
| Vinyl chloride | 2.48 µg/Kg | < 2.48 µg/Kg |
| m,p-Xylene | 6.21 µg/Kg | < 6.21 µg/Kg |
| o-Xylene | 6.21 µg/Kg | < 6.21 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 94.8 % |
| Toluene-d8 (SS) | | 99.4 % |
| Bromofluorobenzene (SS) | | 91.8 % |

Applicable results are reported on Dry Weight basis.

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

District: Tulsa
Project: Former Webb AFB Laredo TX
Site: Landfill
Field ID: LF-SB35(5.0)QA
SWD Number: S70317-23
Analysis Method: 8270B
QC Batch No : 970714S34

Date Sampled : 01 July 1997
Date Received : 03 July 1997
Date Extracted : 14 July 1997
Date Analyzed : 19 July 1997
Date Reported : 23 July 1997
Sample Matrix : Soil
Dilution Factor: 3
Analyst : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Phenol | 100 | 990 | < 100 |
| bis(2-Chloroethyl)ether | 200 | 990 | < 200 |
| 2-Chlorophenol | 200 | 990 | < 200 |
| 1,3-Dichlorobenzene | 200 | 990 | < 200 |
| 1,4-Dichlorobenzene | 200 | 990 | < 200 |
| 1,2-Dichlorobenzene | 100 | 990 | < 100 |
| 2-Methyl phenol | 200 | 990 | < 200 |
| bis(2-Chloroisopropyl)ether | 200 | 990 | < 200 |
| 4-Methyl phenol | 200 | 990 | < 200 |
| n-Nitroso-di-n-propyl amine | 200 | 990 | < 200 |
| Hexachloroethane | 200 | 990 | < 200 |
| Nitrobenzene | 600 | 1980 | < 600 |
| Isophorone | 600 | 1980 | < 600 |
| 2-Nitrophenol | 600 | 1980 | < 600 |
| 2,4-Dimethylphenol | 200 | 990 | < 200 |
| bis(2-Chloroethoxy)methane | 300 | 990 | < 300 |
| 2,4-Dichlorophenol | 600 | 1980 | < 600 |
| 1,2,4-Trichlorobenzene | 600 | 1980 | < 600 |
| Naphthalene | 600 | 1980 | < 600 |
| 4-Chloroaniline | 300 | 990 | < 300 |
| Hexachlorobutadiene | 600 | 1980 | < 600 |
| 4-Chloro-3-methylphenol | 600 | 1980 | < 600 |
| 2-Methylnaphthalene | 300 | 990 | < 300 |
| Hexachlorocyclopentadiene | 200 | 990 | < 200 |
| 2,4,6-Trichlorophenol | 200 | 990 | < 200 |
| 2,4,5-Trichlorophenol | 300 | 990 | < 300 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

District: Tulsa
Project: Former Webb AFB Laredo TX
Site: Landfill
Field ID: LF-SB35(5.0)QA
SWD Number: S70317-23
Analysis Method: 8270B
QC Batch No : 970714S34

Date Sampled : 01 July 1997
Date Received : 03 July 1997
Date Extracted : 14 July 1997
Date Analyzed : 19 July 1997
Date Reported : 23 July 1997
Sample Matrix : Soil
Dilution Factor: 3
Analyst : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| 2-Chloronaphthalene | 200 | 990 | < 200 |
| 2-Nitroaniline | 200 | 990 | < 200 |
| Acenaphthalene | 200 | 990 | < 200 |
| Dimethylphthalate | 200 | 990 | < 200 |
| 2,6-Dinitrotoluene | 300 | 990 | < 300 |
| 3-Nitroaniline | 200 | 990 | < 200 |
| Acenaphthene | 200 | 990 | < 200 |
| 2,4-Dinitrophenol | 3000 | 4500 | < 3000 |
| 4-Nitrophenol | 600 | 1980 | < 600 |
| Dibenzofuran | 200 | 990 | < 200 |
| 2,4-Dinitrotoluene | 300 | 990 | < 300 |
| Fluorene | 200 | 990 | < 200 |
| 4-Chlorophenyl-phenylether | 300 | 990 | < 300 |
| Diethylphthalate | 200 | 990 | < 200 |
| 4-Nitroaniline | 200 | 990 | < 200 |
| 4,6-Dinitro-2-methylphenol | 600 | 1980 | < 600 |
| n-Nitrosodiphenylamine | 200 | 990 | < 200 |
| 4-Bromophenyl-phenylether | 200 | 990 | < 200 |
| Hexachlorobenzene | 300 | 990 | < 300 |
| Pentachlorophenol | 300 | 990 | < 300 |
| Phenanthrene | 200 | 990 | < 200 |
| Anthracene | 200 | 990 | < 200 |
| Di-n-butylphthalate | 1000 | 3600 | < 1000 |
| Fluoranthene | 200 | 990 | < 200 |
| Pyrene | 600 | 1980 | < 600 |
| Butylbenzylphthalate | 200 | 990 | < 200 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

District: Tulsa
Project: Former Webb AFB Laredo TX
Site: Landfill
Field ID: LF-SB35(5.0)QA
SWD Number: S70317-23
Analysis Method: 8270B
QC Batch No : 970714S34

Date Sampled : 01 July 1997
Date Received : 03 July 1997
Date Extracted : 14 July 1997
Date Analyzed : 19 July 1997
Date Reported : 23 July 1997
Sample Matrix : Soil
Dilution Factor: 3
Analyst : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Benzo(a)anthracene | 200 | 990 | < 200 |
| Chrysene | 200 | 990 | < 200 |
| 3,3'-Dichlorobenzidine | 200 | 990 | < 200 |
| bis(2-ethylhexyl)phthalate | 600 | 1980 | < 600 |
| Di-n-octylphthalate | 200 | 990 | < 200 |
| Benzo(b)fluoranthene | 200 | 990 | < 200 |
| Benzo(k)fluoranthene | 200 | 990 | < 200 |
| Benzo(a)pyrene | 200 | 990 | < 200 |
| Indeno(1,2,3-cd)pyrene | 200 | 990 | < 200 |
| Dibenz(a,h)anthrancene | 200 | 990 | < 200 |
| Benzo(g,h,i)perylene | 200 | 990 | < 200 |
| **Surrogates** | **Concentration of Surrogate (ug/Kg)** | **Acceptence Range** | **% Recovered** |
| 2-Fluorophenol | 200 | 25 - 121 | 60 % |
| Phenol-d6 | 200 | 24 - 113 | 79 % |
| Nitrobenzene-d5 | 100 | 47 - 119 | 97 % |
| 2-Fluorobiphenyl | 100 | 54 - 107 | 88 % |
| 2,4,6-Tribromophenol | 200 | 27 - 122 | 46 % |
| Terphenyl-d14 | 100 | 45 - 125 | 84 % |

SDL - Sample Detection Limit SRL - Sample Reporting Limit

04595

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

317-23

Lab Name: SWD Lab Contract: 0000

Lab Code: 0000 Case No.: 0000 SAS No.: 0000 SDG No.: 0000

Matrix: (soil/water) SOIL Lab Sample ID: 317-23dup 970

Sample wt/vol: 10 (g/ml) G Lab File ID: 317-23DU.D

Level: (low/med) LOW Date Received: 07/03/97

% Moisture: 0 decanted: (Y/N) N Date Analyzed: 07/19/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 3.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|

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Southwestern Division Laboratory
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Dallas, TX-75235
214/905-9130

District: Tulsa
Project: Former Webb AFB Laredo TX
Site: Landfill
Field ID: LF-SB35(5.0)QA
SWD Number: S70317-23
Analysis Method: 8270B
QC Batch No : 970714S34

Date Sampled : 01 July 1997
Date Received : 03 July 1997
Date Extracted : 14 July 1997
Date Analyzed : 19 July 1997
Date Reported : 23 July 1997
Sample Matrix : Soil
Dilution Factor: 3
Analyst : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Phenol | 100 | 990 | < 100 |
| bis(2-Chloroethyl)ether | 200 | 990 | < 200 |
| 2-Chlorophenol | 200 | 990 | < 200 |
| 1,3-Dichlorobenzene | 200 | 990 | < 200 |
| 1,4-Dichlorobenzene | 200 | 990 | < 200 |
| 1,2-Dichlorobenzene | 100 | 990 | < 100 |
| 2-Methyl phenol | 200 | 990 | < 200 |
| bis(2-Chloroisopropyl)ether | 200 | 990 | < 200 |
| 4-Methyl phenol | 200 | 990 | < 200 |
| n-Nitroso-di-n-propyl amine | 200 | 990 | < 200 |
| Hexachloroethane | 200 | 990 | < 200 |
| Nitrobenzene | 600 | 1980 | < 600 |
| Isophorone | 600 | 1980 | < 600 |
| 2-Nitrophenol | 600 | 1980 | < 600 |
| 2,4-Dimethylphenol | 200 | 990 | < 200 |
| bis(2-Chloroethoxy)methane | 300 | 990 | < 300 |
| 2,4-Dichlorophenol | 600 | 1980 | < 600 |
| 1,2,4-Trichlorobenzene | 600 | 1980 | < 600 |
| Naphthalene | 600 | 1980 | < 600 |
| 4-Chloroaniline | 300 | 990 | < 300 |
| Hexachlorobutadiene | 600 | 1980 | < 600 |
| 4-Chloro-3-methylphenol | 600 | 1980 | < 600 |
| 2-Methylnaphthalene | 300 | 990 | < 300 |
| Hexachlorocyclopentadiene | 200 | 990 | < 200 |
| 2,4,6-Trichlorophenol | 200 | 990 | < 200 |
| 2,4,5-Trichlorophenol | 300 | 990 | < 300 |

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Southwestern Division Laboratory
4815 Cass Street
Dallas, TX-75235
214/905-9130

District: Tulsa
Project: Former Webb AFB Laredo TX
Site: Landfill
Field ID: LF-SB35(5.0)QA
SWD Number: S70317-23
Analysis Method: 8270B
QC Batch No : 970714S34

Date Sampled : 01 July 1997
Date Received : 03 July 1997
Date Extracted : 14 July 1997
Date Analyzed : 19 July 1997
Date Reported : 23 July 1997
Sample Matrix : Soil
Dilution Factor: 3
Analyst : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| 2-Chloronaphthalene | 200 | 990 | < 200 |
| 2-Nitroaniline | 200 | 990 | < 200 |
| Acenaphthalene | 200 | 990 | < 200 |
| Dimethylphthalate | 200 | 990 | < 200 |
| 2,6-Dinitrotoluene | 300 | 990 | < 300 |
| 3-Nitroaniline | 200 | 990 | < 200 |
| Acenaphthene | 200 | 990 | < 200 |
| 2,4-Dinitrophenol | 3000 | 4500 | < 3000 |
| 4-Nitrophenol | 600 | 1980 | < 600 |
| Dibenzofuran | 200 | 990 | < 200 |
| 2,4-Dinitrotoluene | 300 | 990 | < 300 |
| Fluorene | 200 | 990 | < 200 |
| 4-Chlorophenyl-phenylether | 300 | 990 | < 300 |
| Diethylphthalate | 200 | 990 | < 200 |
| 4-Nitroaniline | 200 | 990 | < 200 |
| 4,6-Dinitro-2-methylphenol | 600 | 1980 | < 600 |
| n-Nitrosodiphenylamine | 200 | 990 | < 200 |
| 4-Bromophenyl-phenylether | 200 | 990 | < 200 |
| Hexachlorobenzene | 300 | 990 | < 300 |
| Pentachlorophenol | 300 | 990 | < 300 |
| Phenanthrene | 200 | 990 | < 200 |
| Anthracene | 200 | 990 | < 200 |
| Di-n-butylphthalate | 1000 | 3600 | < 1000 |
| Fluoranthene | 200 | 990 | < 200 |
| Pyrene | 600 | 1980 | < 600 |
| Butylbenzylphthalate | 200 | 990 | < 200 |

US ARMY CORPS OF ENGINEERS
Southwestern Division Laboratory
4815 Cass Street
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214/905-9130

District: Tulsa
Project: Former Webb AFB Laredo TX
Site: Landfill
Field ID: LF-SB35(5.0)QA
SWD Number: S70317-23
Analysis Method: 8270B
QC Batch No : 970714S34

Date Sampled : 01 July 1997
Date Received : 03 July 1997
Date Extracted : 14 July 1997
Date Analyzed : 19 July 1997
Date Reported : 23 July 1997
Sample Matrix : Soil
Dilution Factor: 3
Analyst : LTN

| Analyte | SDL (µg/Kg) | SRL (µg/Kg) | Result (ug/Kg) |
|---|---|---|---|
| Benzo(a)anthracene | 200 | 990 | < 200 |
| Chrysene | 200 | 990 | < 200 |
| 3,3'-Dichlorobenzidine | 200 | 990 | < 200 |
| bis(2-ethylhexyl)phthalate | 600 | 1980 | < 600 |
| Di-n-octylphthalate | 200 | 990 | < 200 |
| Benzo(b)fluoranthene | 200 | 990 | < 200 |
| Benzo(k)fluoranthene | 200 | 990 | < 200 |
| Benzo(a)pyrene | 200 | 990 | < 200 |
| Indeno(1,2,3-cd)pyrene | 200 | 990 | < 200 |
| Dibenz(a,h)anthrancene | 200 | 990 | < 200 |
| Benzo(g,h,i)perylene | 200 | 990 | < 200 |
| **Surrogates** | **Concentration of Surrogate (ug/Kg)** | **Acceptence Range** | **% Recovered** |
| 2-Fluorophenol | 200 | 25 - 121 | 60 % |
| Phenol-d6 | 200 | 24 - 113 | 79 % |
| Nitrobenzene-d5 | 100 | 47 - 119 | 97 % |
| 2-Fluorobiphenyl | 100 | 54 - 107 | 88 % |
| 2,4,6-Tribromophenol | 200 | 27 - 122 | 46 % |
| Terphenyl-d14 | 100 | 45 - 125 | 84 % |

SDL - Sample Detection Limit SRL - Sample Reporting Limit

04593

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

317-23

Lab Name: SWD Lab Contract: 0000

Lab Code: 0000 Case No.: 0000 SAS No.: 0000 SDG No.: 0000

Matrix: (soil/water) SOIL Lab Sample ID: 317-23dup 970

Sample wt/vol: 10 (g/ml) G Lab File ID: 317-23DU.D

Level: (low/med) LOW Date Received: 07/03/97

% Moisture: 0 decanted: (Y/N) N Date Analyzed: 07/19/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 3.0

Injection Volume: 1.0 (uL) Soil Aliquot Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH:

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-24 LF-SB37(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.55 mg/Kg | < 0.55 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.1 mg/Kg | 5590 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.554 mg/Kg | 2.14 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.1 mg/Kg | 26.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.33 mg/Kg | 0.42 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-20 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 111 | mg/Kg | 1610 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 55.4 | mg/Kg | 1940 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.1 | mg/Kg | 60.1 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 111 | mg/Kg | 287 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.1 | mg/Kg | 6.6 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.55 | mg/Kg | 5.59 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 5.5 | mg/Kg | < 5.5 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

REPORT NUMBER : D97-8277-20 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.55 mg/Kg | < 0.55 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.1 mg/Kg | 1.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.11 mg/Kg | < 1.11 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.1 mg/Kg | 9.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.32 mg/Kg | 29.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-24 LF-SB37(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| MISCELLANEOUS ANALYSES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Total Solids /1 | 0.01 % | 90.3 % |
| Analyzed using ASTM D2216 mod. on 8-JUL-1997 by SAB<br>QC Batch No : 154041J | | |

Applicable results are reported on Dry Weight basis.

04601

Intertek Testing Services NA Inc.
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-24 LF-SB37(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2,4-D | 55.4 | µg/Kg | < | 55.4 | µg/Kg |
| 2,4-DB | 55.4 | µg/Kg | < | 55.4 | µg/Kg |
| 2,4,5-T | 5.54 | µg/Kg | < | 5.54 | µg/Kg |
| 2,4,5-TP(Silvex) | 5.54 | µg/Kg | < | 5.54 | µg/Kg |
| Dalapon | 221 | µg/Kg | < | 221 | µg/Kg |
| Dicamba | 5.54 | µg/Kg | < | 5.54 | µg/Kg |
| Dichlorprop | 55.4 | µg/Kg | < | 55.4 | µg/Kg |
| Dinoseb | 22.1 | µg/Kg | < | 22.1 | µg/Kg |
| MCPA | 22100 | µg/Kg | < | 22100 | µg/Kg |
| MCPP | 22100 | µg/Kg | < | 22100 | µg/Kg |

REPORT NUMBER : D97-8277-20
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 77.5 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-24 LF-SB37(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 680
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.01 µg/Kg | < 3.01 µg/Kg |
| Alpha-BHC | 2.26 µg/Kg | < 2.26 µg/Kg |
| Beta-BHC | 4.51 µg/Kg | < 4.51 µg/Kg |
| Delta-BHC | 6.77 µg/Kg | < 6.77 µg/Kg |
| Gamma-BHC(Lindane) | 3.01 µg/Kg | < 3.01 µg/Kg |
| Chlordane | 10.5 µg/Kg | < 10.5 µg/Kg |
| 4,4'-DDD | 8.27 µg/Kg | < 8.27 µg/Kg |
| 4,4'-DDE | 3.01 µg/Kg | < 3.01 µg/Kg |
| 4,4'-DDT | 9.02 µg/Kg | < 9.02 µg/Kg |
| Dieldrin | 1.50 µg/Kg | < 1.50 µg/Kg |
| Endosulfan I | 10.5 µg/Kg | < 10.5 µg/Kg |
| Endosulfan II | 3.01 µg/Kg | < 3.01 µg/Kg |
| Endosulfan Sulfate | 49.6 µg/Kg | < 49.6 µg/Kg |
| Endrin | 4.51 µg/Kg | < 4.51 µg/Kg |

REPORT NUMBER : D97-8277-20
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 17.3 | µg/Kg | < | 17.3 | µg/Kg |
| Heptachlor | 2.26 | µg/Kg | < | 2.26 | µg/Kg |
| Heptachlor Epoxide | 62.4 | µg/Kg | < | 62.4 | µg/Kg |
| Methoxychlor | 132 | µg/Kg | < | 132 | µg/Kg |
| Toxaphene | 180 | µg/Kg | < | 180 | µg/Kg |
| Aroclor-1016 | 48.9 | µg/Kg | < | 48.9 | µg/Kg |
| Aroclor-1221 | 48.9 | µg/Kg | < | 48.9 | µg/Kg |
| Aroclor-1232 | 48.9 | µg/Kg | < | 48.9 | µg/Kg |
| Aroclor-1242 | 48.9 | µg/Kg | < | 48.9 | µg/Kg |
| Aroclor-1248 | 48.9 | µg/Kg | < | 48.9 | µg/Kg |
| Aroclor-1254 | 48.9 | µg/Kg | < | 48.9 | µg/Kg |
| Aroclor-1260 | 48.9 | µg/Kg | < | 48.9 | µg/Kg |

| QUALITY CONTROL DATA | | | |
|---|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED | |
| Decachlorobiphenyl (SS) | | 128 | % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 79.9 | % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-24 LF-SB37(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707112004

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 22.1 µg/Kg | < 22.1 µg/Kg |
| Acrylonitrile | 5.54 µg/Kg | < 5.54 µg/Kg |
| Benzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| Bromobenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| Bromochloromethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| Bromodichloromethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| Bromoform | 5.54 µg/Kg | < 5.54 µg/Kg |
| Carbon disulfide | 5.54 µg/Kg | < 5.54 µg/Kg |
| Carbon tetrachloride | 5.54 µg/Kg | < 5.54 µg/Kg |
| Chlorobenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| Chloroethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| Chloroform | 5.54 µg/Kg | < 5.54 µg/Kg |
| 2-Chlorotoluene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 4-Chlorotoluene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 2-Chloroethylvinyl ether | 11.1 µg/Kg | < 11.1 µg/Kg |
| Dibromochloromethane | 5.54 µg/Kg | < 5.54 µg/Kg |

REPORT NUMBER : D97-8277-20
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 27.7 µg/Kg | < 27.7 µg/Kg |
| 1,2-Dibromoethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,2-Dichlorobenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,3-Dichlorobenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,4-Dichlorobenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| trans-1,4-Dichloro-2-butene | 111 µg/Kg | < 111 µg/Kg |
| 1,1-Dichloroethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,2-Dichloroethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,1-Dichloroethene | 5.54 µg/Kg | < 5.54 µg/Kg |
| cis-1,2-Dichloroethene | 5.54 µg/Kg | < 5.54 µg/Kg |
| trans-1,2-Dichloroethene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,2-Dichloropropane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 2,2-Dichloropropane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,1-Dichloropropene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,3-Dichloropropane | 5.54 µg/Kg | < 5.54 µg/Kg |
| cis-1,3-Dichloropropene | 5.54 µg/Kg | < 5.54 µg/Kg |
| trans-1,3-Dichloropropene | 5.54 µg/Kg | < 5.54 µg/Kg |
| Ethylbenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 2-Hexanone | 55.4 µg/Kg | < 55.4 µg/Kg |
| Bromomethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| Chloromethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| Dibromomethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 2-Butanone | 111 µg/Kg | < 111 µg/Kg |
| Iodomethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| Methylene chloride | 5.54 µg/Kg | < 5.54 µg/Kg |
| 4-Methyl-2-pentanone | 111 µg/Kg | < 111 µg/Kg |



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REPORT NUMBER : D97-8277-20
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| Tetrachloroethene | 5.54 µg/Kg | < 5.54 µg/Kg |
| Toluene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,1,1-Trichloroethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,1,2-Trichloroethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| Trichloroethene | 5.54 µg/Kg | < 5.54 µg/Kg |
| Trichlorofluoromethane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,2,3-Trichloropropane | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.54 µg/Kg | < 5.54 µg/Kg |
| Vinyl acetate | 55.4 µg/Kg | < 55.4 µg/Kg |
| Vinyl chloride | 2.21 µg/Kg | < 2.21 µg/Kg |
| m,p-Xylene | 5.54 µg/Kg | < 5.54 µg/Kg |
| o-Xylene | 5.54 µg/Kg | < 5.54 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 94.2 % |
| Toluene-d8 (SS) | | 99.8 % |
| Bromofluorobenzene (SS) | | 92.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-24 LF-SB37(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707112004

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 11 ug/Kg |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-24 LF-SB37(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Acenaphthylene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Anthracene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Benzo(a)anthracene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Benzo(b)fluoranthene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Benzo(k)fluoranthene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Benzo(g,h,i)perylene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Benzo(a)pyrene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Benzyl alcohol | 0.720 mg/Kg | < 0.720 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.365 mg/Kg | < 0.365 mg/Kg |
| Bis(2-chloroethyl)ether | 0.365 mg/Kg | < 0.365 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.365 mg/Kg | < 0.365 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.365 mg/Kg | < 0.365 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.365 mg/Kg | < 0.365 mg/Kg |

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REPORT NUMBER : D97-8277-20
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.365 mg/Kg | < 0.365 mg/Kg |
| Carbazole | 0.365 mg/Kg | < 0.365 mg/Kg |
| 4-Chloroaniline | 0.365 mg/Kg | < 0.365 mg/Kg |
| 2-Chloronaphthalene | 0.365 mg/Kg | < 0.365 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.365 mg/Kg | < 0.365 mg/Kg |
| Chrysene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Dibenz(a,h)anthracene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Dibenzofuran | 0.365 mg/Kg | < 0.365 mg/Kg |
| Di-n-butylphthalate | 0.365 mg/Kg | < 0.365 mg/Kg |
| 1,2-Dichlorobenzene | 0.365 mg/Kg | < 0.365 mg/Kg |
| 1,3-Dichlorobenzene | 0.365 mg/Kg | < 0.365 mg/Kg |
| 1,4-Dichlorobenzene | 0.365 mg/Kg | < 0.365 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.365 mg/Kg | < 0.365 mg/Kg |
| Diethyl phthalate | 0.365 mg/Kg | < 0.365 mg/Kg |
| Dimethyl phthalate | 0.365 mg/Kg | < 0.365 mg/Kg |
| 2,4-Dinitrotoluene | 0.365 mg/Kg | < 0.365 mg/Kg |
| 2,6-Dinitrotoluene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Di-n-octylphthalate | 0.365 mg/Kg | < 0.365 mg/Kg |
| Fluoranthene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Fluorene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Hexachlorobenzene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Hexachlorobutadiene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Hexachlorocyclopentadiene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Hexachloroethane | 0.365 mg/Kg | < 0.365 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Isophorone | 0.365 mg/Kg | < 0.365 mg/Kg |



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REPORT NUMBER : D97-8277-20
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Naphthalene | 0.365 mg/Kg | < 0.365 mg/Kg |
| 2-Nitroaniline | 1.83 mg/Kg | < 1.83 mg/Kg |
| 3-Nitroaniline | 1.83 mg/Kg | < 1.83 mg/Kg |
| 4-Nitroaniline | 1.83 mg/Kg | < 1.83 mg/Kg |
| Nitrobenzene | 0.365 mg/Kg | < 0.365 mg/Kg |
| N-Nitrosodiphenylamine | 0.365 mg/Kg | < 0.365 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.365 mg/Kg | < 0.365 mg/Kg |
| Phenanthrene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Pyrene | 0.365 mg/Kg | < 0.365 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.365 mg/Kg | < 0.365 mg/Kg |
| Benzoic acid | 0.886 mg/Kg | < 0.886 mg/Kg |
| 4-Chloro-3-methylphenol | 0.720 mg/Kg | < 0.720 mg/Kg |
| 2-Chlorophenol | 0.365 mg/Kg | < 0.365 mg/Kg |
| 2,4-Dichlorophenol | 0.365 mg/Kg | < 0.365 mg/Kg |
| 2,4-Dimethylphenol | 0.365 mg/Kg | < 0.365 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.83 mg/Kg | < 1.83 mg/Kg |
| 2,4-Dinitrophenol | 1.83 mg/Kg | < 1.83 mg/Kg |
| 2-Methylphenol | 0.365 mg/Kg | < 0.365 mg/Kg |
| 4-Methylphenol | 0.365 mg/Kg | < 0.365 mg/Kg |
| 2-Nitrophenol | 0.365 mg/Kg | < 0.365 mg/Kg |
| 4-Nitrophenol | 0.886 mg/Kg | < 0.886 mg/Kg |
| Pentachlorophenol | 1.83 mg/Kg | < 1.83 mg/Kg |
| Phenol | 0.365 mg/Kg | < 0.365 mg/Kg |
| 2,4,5-Trichlorophenol | 1.83 mg/Kg | < 1.83 mg/Kg |
| 2,4,6-Trichlorophenol | 0.365 mg/Kg | < 0.365 mg/Kg |

REPORT NUMBER : D97-8277-20
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 53.6 % |
| 2-Fluorobiphenyl (SS) | | 53.7 % |
| Terphenyl-d14 (SS) | | 53.7 % |
| Phenol-d6 (SS) | | 54.7 % |
| 2-Fluorophenol (SS) | | 55.0 % |
| 2,4,6-Tribromophenol (SS) | | 53.5 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-20
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-24 LF-SB37(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-15

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.37 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-25 LF-SB49(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Aluminum | /1 | 11.7 mg/Kg | 11200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Arsenic | /1 | 0.587 mg/Kg | 2.57 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 14-JUL-1997 by GGD<br>QC Batch No : AC159-32 | | | |
| Barium | /1 | 1.2 mg/Kg | 64.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

REPORT NUMBER : D97-8277-21 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 117 | mg/Kg | 1970 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Magnesium | /1 | 58.7 | mg/Kg | 2970 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Manganese | /1 | 1.2 | mg/Kg | 143 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Sodium | /1 | 117 | mg/Kg | 437 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Nickel | /1 | 1.2 | mg/Kg | 8.4 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Lead | /1 | 0.59 | mg/Kg | 8.72 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |
| Antimony | /1 | 5.9 | mg/Kg | < 5.9 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | | | |

REPORT NUMBER : D97-8277-21 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 12-JUL-1997 by AH<br>QC Batch No : AC159-46F | | | |
| Tin | /1 | 1.2 mg/Kg | 1.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Thallium | /1 | 1.17 mg/Kg | < 1.17 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Vanadium | /1 | 1.2 mg/Kg | 17.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |
| Zinc | /1 | 3.52 mg/Kg | 37.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3051 on 9-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 15-JUL-1997 by GAY<br>QC Batch No : AC159-33 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-25 LF-SB49(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 85.2 % |
| Analyzed using ASTM D2216 mod. on 3-JUL-1997 by SAB<br>QC Batch No : 154041J | | | |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-25 LF-SB49(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : CLT
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-87

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.7 µg/Kg | < 58.7 µg/Kg |
| 2,4-DB | 58.7 µg/Kg | < 58.7 µg/Kg |
| 2,4,5-T | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2,4,5-TP(Silvex) | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dalapon | 235 µg/Kg | < 235 µg/Kg |
| Dicamba | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dichlorprop | 58.7 µg/Kg | < 58.7 µg/Kg |
| Dinoseb | 23.5 µg/Kg | < 23.5 µg/Kg |
| MCPA | 23500 µg/Kg | < 23500 µg/Kg |
| MCPP | 23500 µg/Kg | < 23500 µg/Kg |

REPORT NUMBER : D97-8277-21
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 82.9 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-25 LF-SB49(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 15-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-14

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.15 µg/Kg | < 3.15 µg/Kg |
| Alpha-BHC | 2.37 µg/Kg | < 2.37 µg/Kg |
| Beta-BHC | 4.73 µg/Kg | < 4.73 µg/Kg |
| Delta-BHC | 7.10 µg/Kg | < 7.10 µg/Kg |
| Gamma-BHC(Lindane) | 3.15 µg/Kg | < 3.15 µg/Kg |
| Chlordane | 11.0 µg/Kg | < 11.0 µg/Kg |
| 4,4'-DDD | 8.68 µg/Kg | < 8.68 µg/Kg |
| 4,4'-DDE | 3.15 µg/Kg | < 3.15 µg/Kg |
| 4,4'-DDT | 9.46 µg/Kg | < 9.46 µg/Kg |
| Dieldrin | 1.58 µg/Kg | < 1.58 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < 11.0 µg/Kg |
| Endosulfan II | 3.15 µg/Kg | < 3.15 µg/Kg |
| Endosulfan Sulfate | 52.1 µg/Kg | < 52.1 µg/Kg |
| Endrin | 4.73 µg/Kg | < 4.73 µg/Kg |

REPORT NUMBER : D97-8277-21
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.1 | µg/Kg | < | 18.1 | µg/Kg |
| Heptachlor | 2.37 | µg/Kg | < | 2.37 | µg/Kg |
| Heptachlor Epoxide | 65.5 | µg/Kg | < | 65.5 | µg/Kg |
| Methoxychlor | 139 | µg/Kg | < | 139 | µg/Kg |
| Toxaphene | 189 | µg/Kg | < | 189 | µg/Kg |
| Aroclor-1016 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1221 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1232 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1242 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1248 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1254 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |
| Aroclor-1260 | 51.3 | µg/Kg | < | 51.3 | µg/Kg |

| QUALITY CONTROL DATA | | | |
|---|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED | |
| Decachlorobiphenyl (SS) | | 123 | % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 74.0 | % |

Applicable results are reported on Dry Weight basis.



Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-25 LF-SB49(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707112004

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.5 µg/Kg | < 23.5 µg/Kg |
| Acrylonitrile | 5.87 µg/Kg | < 5.87 µg/Kg |
| Benzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromochloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromodichloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Bromoform | 5.87 µg/Kg | < 5.87 µg/Kg |
| Carbon disulfide | 5.87 µg/Kg | < 5.87 µg/Kg |
| Carbon tetrachloride | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloroform | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Chlorotoluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 4-Chlorotoluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Chloroethylvinyl ether | 11.7 µg/Kg | < 11.7 µg/Kg |
| Dibromochloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |

REPORT NUMBER : D97-8277-21
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.3 µg/Kg | < 29.3 µg/Kg |
| 1,2-Dibromoethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,4-Dichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,4-Dichloro-2-butene | 117 µg/Kg | < 117 µg/Kg |
| 1,1-Dichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| cis-1,2-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,2-Dichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2,2-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3-Dichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| cis-1,3-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| trans-1,3-Dichloropropene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Ethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Hexanone | 58.7 µg/Kg | < 58.7 µg/Kg |
| Bromomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Chloromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Dibromomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 2-Butanone | 117 µg/Kg | < 117 µg/Kg |
| Iodomethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Methylene chloride | 5.87 µg/Kg | < 5.87 µg/Kg |
| 4-Methyl-2-pentanone | 117 µg/Kg | < 117 µg/Kg |



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REPORT NUMBER : D97-8277-21
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Tetrachloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Toluene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,1-Trichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,1,2-Trichloroethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| Trichloroethene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Trichlorofluoromethane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,3-Trichloropropane | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.87 µg/Kg | < 5.87 µg/Kg |
| Vinyl acetate | 58.7 µg/Kg | < 58.7 µg/Kg |
| Vinyl chloride | 2.35 µg/Kg | < 2.35 µg/Kg |
| m,p-Xylene | 5.87 µg/Kg | < 5.87 µg/Kg |
| o-Xylene | 5.87 µg/Kg | < 5.87 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 92.2 % |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 103 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 3-JUL-1997

REPORT NUMBER : D97-8277-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-25 LF-SB49(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
ANALYZED BY : RLR
ANALYZED ON : 12-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707112004

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.



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1089 East Collins Boulevard Richardson, TX 75081
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REPORT NUMBER : D97-8277-21
REPORT DATE : 31-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70317-25 LF-SB49(2.0)
PROJECT : Laredo-SFL: Landfill
DATE SAMPLED : 30-JUN-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : CLT
PREPARED ON : 10-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 11-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-15

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Acenaphthylene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Anthracene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(a)anthracene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(b)fluoranthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(k)fluoranthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(g,h,i)perylene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(a)pyrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzyl alcohol | 0.763 mg/Kg | < 0.763 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-chloroethyl)ether | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.387 mg/Kg | < 0.387 mg/Kg |

# SWF-EV-L Report No. 16824-4
# Results of Chemical Analyses of Water and Soil Samples

**U.S. ARMY CORPS OF ENGINEERS**
**Southwestern Division Laboratory**
**Environmental Services Section**
**4815 Cass Street**
**Dallas, Texas 75235**
**214/905-9130**

CASE NARRATIVE

One water sample, fourteen soil samples, and two quality assurance soil samples arrived at Southwestern Division Laboratory on 12 of July 1997 from former Webb AFB -Laredo TX. The samples arrived hand carried in fair condition with incomplete chains of custody. No custody seals were placed on the coolers. SWD recommends placing each container in an individual bag to prevent cross contamination. One vial for sample LF-decon arrived with bubbles that were less than six mm in size. SWD received two semi-volatile jars for sample - SB39(5.0) and no semi-volatile jars for samples SB(5.0)QA. Per conversation with the client; change the sample label on one of the sample jars to match SB(5.0)QA. The samples were distributed for analysis as shown in the following table:

| LABORATORIES | SAMPLE TYPES |
|---|---|
| Environmental Chemical Corporation | QA for sample S70326-9: herbicides.<br>QA for sample S70326-15: semi-volatiles. |
| Intertek Testing Services | Field and QC for samples S70326-1 to S70326-17: volatiles, herbicides, pesticides, semi-volatiles, and metals. |

The above laboratories are Corps of Engineers' validated laboratories. The computerized data from Intertek Testing Services in Intertek Testing Services' standard deliverable format. The computerized data from Environmental Chemical Corporation in Environmental Chemical Corporation's standard deliverable format.

The data package from Environmental Chemical Corporation was received complete with all required internal quality control information. All of the analyses were performed using specified methods within proper holding times. All the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits. All method blanks were free of contamination.

The data package from Intertek Testing Services was received complete with all required internal quality control information. The majority of all of the analyses were performed using specified methods within proper holding times. The herbicides were analyzed by method 8151 and not the requested 8150 method. The results are comparable. The majority of all of the RPDs, matrix spike, surrogate, and laboratory control recoveries were within control limits with the following exceptions:

-For metals: in batch AC160-22; the MS, MSD, and MS/MSD RPD for aluminum, iron, and calcium were outside of quality control limits due to a high analyte in the QC sample.

In batch AC160-53; the MS, MSD, and MS/MSD RPD for sodium was outside of quality control limits due to matrix interference.

In batch AC160-22; the MS, MSD, and MS/MSD RPD for antimony, potassium, and magnesium were outside of quality control limits due to matrix interference.

-For pesticides: in batch AC142-80; an BS and BSD were prepared instead of an MS and MSD.

Sample S70326-17; one surrogate was outside of quality control limits.

-For herbicides: in batch AC142-88; an BS and BSD were prepared instead of an MS and MSD.

In batch AC143-2; the MS, MSD, and MS/MSD RPD were outside of quality control limits.

-For semi-volatiles: in batch AC143-6; the MS, MSD, and MS/MSD RPD were outside of quality control limits due to a preparation error.

In batch AC142-73; an BS and BSD were prepared instead of an MS and MSD.

-For volatiles: in batch 9707177001; an MS, BS and BSD were prepared instead of a MSD.

In batch 9707187001; the MS, MSD, and MS/MSD RPD were outside of quality control limits due to a high analyte in the QC sample.

All method blanks were free of contamination.

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Following is a synopsis of the quality assurance samples and their related QC and field samples:

**Customer Sample No.:** LF-SB47(5.0), LF-SB47(5.0)-QA
**SWD Lab Sample No. :** S70326-8, S70326-9
**Date of Sampling for Field Sample:** 11 July 1997
**Date of Sampling for QA Sample :** 11 July 1997

| Parameter | Primary Method | Field | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|
| herbicides | 8151 | 0 HITs | 0 HITs | 8150 | ug/Kg | Agree |

Following is a synopsis of the quality assurance samples and their related QC and field samples:

**Customer Sample No.:** LF-SB39(5.0), LF-SB39(5.0)-QA
**SWD Lab Sample No. :** S70326-14, S70326-15
**Date of Sampling for Field Sample:** 11 July 1997
**Date of Sampling for QA Sample :** 11 July 1997

| Parameter | Primary Method | Field | QA | QA Method | Units | Comment |
|---|---|---|---|---|---|---|
| SVOA | 8270B | 1 HIT | 0 HITs | 8270B | mg/Kg | Agree |
| | | 0 TICs | 0 TICs | | | |
| diethyl phthalate | | 1.03 | <0.575 | | | |

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-1 LF-SB55(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.6 mg/Kg | 7650 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.32 mg/Kg | 2.58 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.16 mg/Kg | 43.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.64 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-1 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.1 mg/Kg | 10500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.16 mg/Kg | 4.98 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.58 mg/Kg | 7.42 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.16 mg/Kg | 3.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.6 mg/Kg | 11100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.139 mg/Kg | < 0.139 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |



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REPORT NUMBER : D97-8658-1 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 116 | mg/Kg | 1390 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Magnesium | /1 | 116 | mg/Kg | 1790 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Manganese | /1 | 1.16 | mg/Kg | 139 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Sodium | /1 | 116 | mg/Kg | 128 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Nickel | /1 | 1.16 | mg/Kg | 7.56 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Lead | /1 | 0.581 | mg/Kg | 6.20 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Antimony | /1 | 5.81 | mg/Kg | < 5.81 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |

REPORT NUMBER : D97-8658-1 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.16 mg/Kg | < 1.16 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.50 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.16 mg/Kg | 10.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.32 mg/Kg | 31.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-1 LF-SB55(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 86.1 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 154100E | | | |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-1 LF-SB55(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.1 µg/Kg | < 58.1 µg/Kg |
| 2,4-DB | 58.1 µg/Kg | < 58.1 µg/Kg |
| 2,4,5-T | 5.81 µg/Kg. | < 5.81 µg/Kg |
| 2,4,5-TP(Silvex) | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dalapon | 232 µg/Kg | < 232 µg/Kg |
| Dicamba | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dichlorprop | 58.1 µg/Kg | < 58.1 µg/Kg |
| Dinoseb | 23.2 µg/Kg | < 23.2 µg/Kg |
| MCPA | 23200 µg/Kg | < 23200 µg/Kg |
| MCPP | 23200 µg/Kg | < 23200 µg/Kg |



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REPORT NUMBER : D97-8658-1
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 79.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-1 LF-SB55(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.11 µg/Kg | < 3.11 µg/Kg |
| Alpha-BHC | 2.33 µg/Kg | < 2.33 µg/Kg |
| Beta-BHC | 4.67 µg/Kg | < 4.67 µg/Kg |
| Delta-BHC | 7.00 µg/Kg | < 7.00 µg/Kg |
| Gamma-BHC(Lindane) | 3.11 µg/Kg | < 3.11 µg/Kg |
| Chlordane | 10.9 µg/Kg | < 10.9 µg/Kg |
| 4,4'-DDD | 8.56 µg/Kg | < 8.56 µg/Kg |
| 4,4'-DDE | 3.11 µg/Kg | < 3.11 µg/Kg |
| 4,4'-DDT | 9.34 µg/Kg | < 9.34 µg/Kg |
| Dieldrin | 1.56 µg/Kg | < 1.56 µg/Kg |
| Endosulfan I | 10.9 µg/Kg | < 10.9 µg/Kg |
| Endosulfan II | 3.11 µg/Kg | < 3.11 µg/Kg |
| Endosulfan Sulfate | 51.4 µg/Kg | < 51.4 µg/Kg |
| Endrin | 4.67 µg/Kg | < 4.67 µg/Kg |

REPORT NUMBER : D97-8658-1
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 17.9 µg/Kg | < 17.9 µg/Kg |
| Heptachlor | 2.33 µg/Kg | < 2.33 µg/Kg |
| Heptachlor Epoxide | 64.6 µg/Kg | < 64.6 µg/Kg |
| Methoxychlor | 137 µg/Kg | < 137 µg/Kg |
| Toxaphene | 187 µg/Kg | < 187 µg/Kg |
| Aroclor-1016 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1221 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1232 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1242 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1248 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1254 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1260 | 50.6 µg/Kg | < 50.6 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 78.5 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 87.6 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-1 LF-SB55(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.2 µg/Kg | < 23.2 µg/Kg |
| Acrylonitrile | 5.81 µg/Kg | < 5.81 µg/Kg |
| Benzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromochloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromodichloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromoform | 5.81 µg/Kg | < 5.81 µg/Kg |
| Carbon disulfide | 5.81 µg/Kg | < 5.81 µg/Kg |
| Carbon tetrachloride | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloroform | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Chlorotoluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 4-Chlorotoluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Chloroethylvinyl ether | 11.6 µg/Kg | < 11.6 µg/Kg |
| Dibromochloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |



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REPORT NUMBER : D97-8658-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.0 µg/Kg | < 29.0 µg/Kg |
| 1,2-Dibromoethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,4-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,4-Dichloro-2-butene | 116 µg/Kg | < 116 µg/Kg |
| 1,1-Dichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| cis-1,2-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,2-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2,2-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| cis-1,3-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,3-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Ethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Hexanone | 58.1 µg/Kg | < 58.1 µg/Kg |
| Bromomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dibromomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Butanone | 116 µg/Kg | < 116 µg/Kg |
| Iodomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Methylene chloride | 5.81 µg/Kg | < 5.81 µg/Kg |
| 4-Methyl-2-pentanone | 116 µg/Kg | < 116 µg/Kg |

REPORT NUMBER : D97-8658-1
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Tetrachloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Toluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,1-Trichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,2-Trichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Trichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Trichlorofluoromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,3-Trichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Vinyl acetate | 58.1 µg/Kg | < 58.1 µg/Kg |
| Vinyl chloride | 2.32 µg/Kg | < 2.32 µg/Kg |
| m,p-Xylene | 5.81 µg/Kg | < 5.81 µg/Kg |
| o-Xylene | 5.81 µg/Kg | < 5.81 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 92.0 % |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 90.0 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-1 LF-SB55(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-1 LF-SB55(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Acenaphthylene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Anthracene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(a)anthracene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(b)fluoranthene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(k)fluoranthene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(g,h,i)perylene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(a)pyrene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzyl alcohol | 0.755 mg/Kg | < 0.755 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.383 mg/Kg | < 0.383 mg/Kg |
| Bis(2-chloroethyl)ether | 0.383 mg/Kg | < 0.383 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.383 mg/Kg | < 0.383 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.383 mg/Kg | < 0.383 mg/Kg |

REPORT NUMBER : D97-8658-1
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| Carbazole | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Chloroaniline | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2-Chloronaphthalene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.383 mg/Kg | < 0.383 mg/Kg |
| Chrysene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Dibenz(a,h)anthracene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Dibenzofuran | 0.383 mg/Kg | < 0.383 mg/Kg |
| Di-n-butylphthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| 1,2-Dichlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 1,3-Dichlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 1,4-Dichlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.383 mg/Kg | < 0.383 mg/Kg |
| Diethyl phthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| Dimethyl phthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,4-Dinitrotoluene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,6-Dinitrotoluene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Di-n-octylphthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| Fluoranthene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Fluorene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Hexachlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Hexachlorobutadiene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Hexachlorocyclopentadiene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Hexachloroethane | 0.383 mg/Kg | < 0.383 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Isophorone | 0.383 mg/Kg | < 0.383 mg/Kg |

REPORT NUMBER : D97-8658-1
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Naphthalene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| 3-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| 4-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| Nitrobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| N-Nitrosodiphenylamine | 0.383 mg/Kg | < 0.383 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.383 mg/Kg | < 0.383 mg/Kg |
| Phenanthrene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Pyrene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzoic acid | 0.929 mg/Kg | < 0.929 mg/Kg |
| 4-Chloro-3-methylphenol | 0.755 mg/Kg | < 0.755 mg/Kg |
| 2-Chlorophenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,4-Dichlorophenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,4-Dimethylphenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2,4-Dinitrophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2-Methylphenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Methylphenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2-Nitrophenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Nitrophenol | 0.929 mg/Kg | < 0.929 mg/Kg |
| Pentachlorophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| Phenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,4,5-Trichlorophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2,4,6-Trichlorophenol | 0.383 mg/Kg | < 0.383 mg/Kg |



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REPORT NUMBER : D97-8658-1
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 61.1 % |
| 2-Fluorobiphenyl (SS) | | 63.5 % |
| Terphenyl-d14 (SS) | | 62.3 % |
| Phenol-d6 (SS) | | 70.3 % |
| 2-Fluorophenol (SS) | | 61.9 % |
| 2,4,6-Tribromophenol (SS) | | 61.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-1
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-1 LF-SB55(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.38 mg/Kg |

Applicable results are reported on Dry Weight basis.

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04653

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-2
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-2 LF-SB55(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.9 mg/Kg | 8140 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.38 mg/Kg | 4.27 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.19 mg/Kg | 27.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.36 mg/Kg | 0.65 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-2 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59.5 mg/Kg | 18200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.19 mg/Kg | 5.17 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.59 mg/Kg | 6.93 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.19 mg/Kg | 3.82 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.9 mg/Kg | 10300 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.143 mg/Kg | < 0.143 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |



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REPORT NUMBER : D97-8658-2



| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 119 mg/Kg | 1480 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 119 mg/Kg | 2070 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.19 mg/Kg | 166 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 119 mg/Kg | 1030 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.19 mg/Kg | 7.81 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.595 mg/Kg | 5.71 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 5.95 mg/Kg | < 5.95 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-2 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.19 mg/Kg | < 1.19 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.95 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.19 mg/Kg | 12.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.38 mg/Kg | 28.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.



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Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-2
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-2 LF-SB55(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 84.1 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 154100E | | | |

Applicable results are reported on Dry Weight basis.

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REPORT NUMBER : D97-8658-2
REPORT DATE : 30-JUL-1997

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: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-2 LF-SB55(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 59.5 µg/Kg | < 59.5 µg/Kg |
| 2,4-DB | 59.5 µg/Kg | < 59.5 µg/Kg |
| 2,4,5-T | 5.95 µg/Kg | < 5.95 µg/Kg |
| 2,4,5-TP(Silvex) | 5.95 µg/Kg | < 5.95 µg/Kg |
| Dalapon | 238 µg/Kg | < 238 µg/Kg |
| Dicamba | 5.95 µg/Kg | < 5.95 µg/Kg |
| Dichlorprop | 59.5 µg/Kg | < 59.5 µg/Kg |
| Dinoseb | 23.8 µg/Kg | < 23.8 µg/Kg |
| MCPA | 23800 µg/Kg | < 23800 µg/Kg |
| MCPP | 23800 µg/Kg | < 23800 µg/Kg |

REPORT NUMBER : D97-8658-2
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 76.3 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-2
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-2 LF-SB55(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.19 µg/Kg | < 3.19 µg/Kg |
| Alpha-BHC | 2.39 µg/Kg | < 2.39 µg/Kg |
| Beta-BHC | 4.78 µg/Kg | < 4.78 µg/Kg |
| Delta-BHC | 7.17 µg/Kg | < 7.17 µg/Kg |
| Gamma-BHC(Lindane) | 3.19 µg/Kg | < 3.19 µg/Kg |
| Chlordane | 11.2 µg/Kg | < 11.2 µg/Kg |
| 4,4'-DDD | 8.76 µg/Kg | < 8.76 µg/Kg |
| 4,4'-DDE | 3.19 µg/Kg | < 3.19 µg/Kg |
| 4,4'-DDT | 9.56 µg/Kg | < 9.56 µg/Kg |
| Dieldrin | 1.59 µg/Kg | < 1.59 µg/Kg |
| Endosulfan I | 11.2 µg/Kg | < 11.2 µg/Kg |
| Endosulfan II | 3.19 µg/Kg | < 3.19 µg/Kg |
| Endosulfan Sulfate | 52.6 µg/Kg | < 52.6 µg/Kg |
| Endrin | 4.78 µg/Kg | < 4.78 µg/Kg |

REPORT NUMBER : D97-8658-2
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 18.3 | µg/Kg | < | 18.3 | µg/Kg |
| Heptachlor | 2.39 | µg/Kg | < | 2.39 | µg/Kg |
| Heptachlor Epoxide | 66.1 | µg/Kg | < | 66.1 | µg/Kg |
| Methoxychlor | 140 | µg/Kg | < | 140 | µg/Kg |
| Toxaphene | 191 | µg/Kg | < | 191 | µg/Kg |
| Aroclor-1016 | 51.8 | µg/Kg | < | 51.8 | µg/Kg |
| Aroclor-1221 | 51.8 | µg/Kg | < | 51.8 | µg/Kg |
| Aroclor-1232 | 51.8 | µg/Kg | < | 51.8 | µg/Kg |
| Aroclor-1242 | 51.8 | µg/Kg | < | 51.8 | µg/Kg |
| Aroclor-1248 | 51.8 | µg/Kg | < | 51.8 | µg/Kg |
| Aroclor-1254 | 51.8 | µg/Kg | < | 51.8 | µg/Kg |
| Aroclor-1260 | 51.8 | µg/Kg | < | 51.8 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 97.9 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 88.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-2
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-2 LF-SB55(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.8 µg/Kg | < 23.8 µg/Kg |
| Acrylonitrile | 5.95 µg/Kg | < 5.95 µg/Kg |
| Benzene | 5.95 µg/Kg | < 5.95 µg/Kg |
| Bromobenzene | 5.95 µg/Kg | < 5.95 µg/Kg |
| Bromochloromethane | 5.95 µg/Kg | < 5.95 µg/Kg |
| Bromodichloromethane | 5.95 µg/Kg | < 5.95 µg/Kg |
| Bromoform | 5.95 µg/Kg | < 5.95 µg/Kg |
| Carbon disulfide | 5.95 µg/Kg | < 5.95 µg/Kg |
| Carbon tetrachloride | 5.95 µg/Kg | < 5.95 µg/Kg |
| Chlorobenzene | 5.95 µg/Kg | < 5.95 µg/Kg |
| Chloroethane | 5.95 µg/Kg | < 5.95 µg/Kg |
| Chloroform | 5.95 µg/Kg | < 5.95 µg/Kg |
| 2-Chlorotoluene | 5.95 µg/Kg | < 5.95 µg/Kg |
| 4-Chlorotoluene | 5.95 µg/Kg | < 5.95 µg/Kg |
| 2-Chloroethylvinyl ether | 11.9 µg/Kg | < 11.9 µg/Kg |
| Dibromochloromethane | 5.95 µg/Kg | < 5.95 µg/Kg |

REPORT NUMBER : D97-8658-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 1,2-Dibromo-3-chloropropane | 29.7 | µg/Kg | < | 29.7 | µg/Kg |
| 1,2-Dibromoethane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 1,2-Dichlorobenzene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 1,3-Dichlorobenzene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 1,4-Dichlorobenzene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| trans-1,4-Dichloro-2-butene | 119 | µg/Kg | < | 119 | µg/Kg |
| 1,1-Dichloroethane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 1,2-Dichloroethane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 1,1-Dichloroethene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| cis-1,2-Dichloroethene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| trans-1,2-Dichloroethene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 1,2-Dichloropropane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 2,2-Dichloropropane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 1,1-Dichloropropene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 1,3-Dichloropropane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| cis-1,3-Dichloropropene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| trans-1,3-Dichloropropene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| Ethylbenzene | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 2-Hexanone | 59.5 | µg/Kg | < | 59.5 | µg/Kg |
| Bromomethane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| Chloromethane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| Dibromomethane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 2-Butanone | 119 | µg/Kg | < | 119 | µg/Kg |
| Iodomethane | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| Methylene chloride | 5.95 | µg/Kg | < | 5.95 | µg/Kg |
| 4-Methyl-2-pentanone | 119 | µg/Kg | < | 119 | µg/Kg |

REPORT NUMBER : D97-8658-2
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.95 µg/Kg | < 5.95 µg/Kg |
| Tetrachloroethene | 5.95 µg/Kg | < 5.95 µg/Kg |
| Toluene | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,1,1-Trichloroethane | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,1,2-Trichloroethane | 5.95 µg/Kg | < 5.95 µg/Kg |
| Trichloroethene | 5.95 µg/Kg | < 5.95 µg/Kg |
| Trichlorofluoromethane | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,2,3-Trichloropropane | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.95 µg/Kg | < 5.95 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.95 µg/Kg | < 5.95 µg/Kg |
| Vinyl acetate | 59.5 µg/Kg | < 59.5 µg/Kg |
| Vinyl chloride | 2.38 µg/Kg | < 2.38 µg/Kg |
| m,p-Xylene | 5.95 µg/Kg | < 5.95 µg/Kg |
| o-Xylene | 5.95 µg/Kg | < 5.95 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 99.4 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 95.8 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
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DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-2
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-2 LF-SB55(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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SAMPLE MATRIX : Soil
ID MARKS : S70326-2 LF-SB55(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Acenaphthylene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(a)anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(b)fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(k)fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(g,h,i)perylene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(a)pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzyl alcohol | 0.773 mg/Kg | < 0.773 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-chloroethyl)ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-2
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Carbazole | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Chloroaniline | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Chloronaphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Chrysene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dibenz(a,h)anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dibenzofuran | 0.392 mg/Kg | < 0.392 mg/Kg |
| Di-n-butylphthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,2-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,3-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,4-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.392 mg/Kg | < 0.392 mg/Kg |
| Diethyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dimethyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dinitrotoluene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,6-Dinitrotoluene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Di-n-octylphthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Fluorene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorobutadiene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorocyclopentadiene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachloroethane | 0.392 mg/Kg | < 0.392 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Isophorone | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-2
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Naphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| 3-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| 4-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| Nitrobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| N-Nitrosodiphenylamine | 0.392 mg/Kg | < 0.392 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.392 mg/Kg | < 0.392 mg/Kg |
| Phenanthrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzoic acid | 0.951 mg/Kg | < 0.951 mg/Kg |
| 4-Chloro-3-methylphenol | 0.773 mg/Kg | < 0.773 mg/Kg |
| 2-Chlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dichlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dimethylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2,4-Dinitrophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2-Methylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Methylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Nitrophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Nitrophenol | 0.951 mg/Kg | < 0.951 mg/Kg |
| Pentachlorophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| Phenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4,5-Trichlorophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2,4,6-Trichlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-2
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 74.7 % |
| 2-Fluorobiphenyl (SS) | | 61.5 % |
| Terphenyl-d14 (SS) | | 74.1 % |
| Phenol-d6 (SS) | | 72.9 % |
| 2-Fluorophenol (SS) | | 71.1 % |
| 2,4,6-Tribromophenol (SS) | | 84.9 % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-2
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-2 LF-SB55(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-3 LF-SB55(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS | |
|---|---|---|---|---|
| Silver | /1 | 0.60 mg/Kg | < 0.60 mg/Kg | - |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | |
| Aluminum | /1 | 12.0 mg/Kg | 9000 mg/Kg | |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | |
| Arsenic | /1 | 2.40 mg/Kg | 2.69 mg/Kg | |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | | |
| Barium | /1 | 1.20 mg/Kg | 51.1 mg/Kg | |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | |
| Beryllium | /1 | 0.36 mg/Kg | 0.66 mg/Kg | |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | |

REPORT NUMBER : D97-8658-3 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59.9 mg/Kg | 21500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.60 mg/Kg | < 0.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.20 mg/Kg | 5.42 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.60 mg/Kg | 8.09 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.20 mg/Kg | 3.19 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 12.0 mg/Kg | 12000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.144 mg/Kg | < 0.144 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |



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REPORT NUMBER : D97-8658-3 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 120 mg/Kg | 1580 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 120 mg/Kg | 1990 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.20 mg/Kg | 151 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 120 mg/Kg | 3330 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.20 mg/Kg | 8.06 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.599 mg/Kg | 5.80 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 5.99 mg/Kg | < 5.99 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-3 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.20 mg/Kg | < 1.20 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.20 mg/Kg | 12.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.40 mg/Kg | 28.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-3 LF-SB55(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS | |
|---|---|---|---|---|
| Total Solids | /1 | 0.01 % | 83.5 % | - |

Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB
QC Batch No : 154100E

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-3 LF-SB55(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 59.9 µg/Kg | < 59.9 µg/Kg |
| 2,4-DB | 59.9 µg/Kg | < 59.9 µg/Kg |
| 2,4,5-T | 5.99 µg/Kg | < 5.99 µg/Kg |
| 2,4,5-TP(Silvex) | 5.99 µg/Kg | < 5.99 µg/Kg |
| Dalapon | 240 µg/Kg | < 240 µg/Kg |
| Dicamba | 5.99 µg/Kg | < 5.99 µg/Kg |
| Dichlorprop | 59.9 µg/Kg | < 59.9 µg/Kg |
| Dinoseb | 24.0 µg/Kg | < 24.0 µg/Kg |
| MCPA | 24000 µg/Kg | < 24000 µg/Kg |
| MCPP | 24000 µg/Kg | < 24000 µg/Kg |

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04677

REPORT NUMBER : D97-8658-3
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 76.3 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-3 LF-SB55(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.21 µg/Kg | < 3.21 µg/Kg |
| Alpha-BHC | 2.41 µg/Kg | < 2.41 µg/Kg |
| Beta-BHC | 4.81 µg/Kg | < 4.81 µg/Kg |
| Delta-BHC | 7.22 µg/Kg | < 7.22 µg/Kg |
| Gamma-BHC(Lindane) | 3.21 µg/Kg | < 3.21 µg/Kg |
| Chlordane | 11.2 µg/Kg | < 11.2 µg/Kg |
| 4,4'-DDD | 8.83 µg/Kg | < 8.83 µg/Kg |
| 4,4'-DDE | 3.21 µg/Kg | < 3.21 µg/Kg |
| 4,4'-DDT | 9.63 µg/Kg | < 9.63 µg/Kg |
| Dieldrin | 1.60 µg/Kg | < 1.60 µg/Kg |
| Endosulfan I | 11.2 µg/Kg | < 11.2 µg/Kg |
| Endosulfan II | 3.21 µg/Kg | < 3.21 µg/Kg |
| Endosulfan Sulfate | 53.0 µg/Kg | < 53.0 µg/Kg |
| Endrin | 4.81 µg/Kg | < 4.81 µg/Kg |



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REPORT NUMBER : D97-8658-3
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.5 µg/Kg | < 18.5 µg/Kg |
| Heptachlor | 2.41 µg/Kg | < 2.41 µg/Kg |
| Heptachlor Epoxide | 66.6 µg/Kg | < 66.6 µg/Kg |
| Methoxychlor | 141 µg/Kg | < 141 µg/Kg |
| Toxaphene | 193 µg/Kg | < 193 µg/Kg |
| Aroclor-1016 | 52.2 µg/Kg | < 52.2 µg/Kg |
| Aroclor-1221 | 52.2 µg/Kg | < 52.2 µg/Kg |
| Aroclor-1232 | 52.2 µg/Kg | < 52.2 µg/Kg |
| Aroclor-1242 | 52.2 µg/Kg | < 52.2 µg/Kg |
| Aroclor-1248 | 52.2 µg/Kg | < 52.2 µg/Kg |
| Aroclor-1254 | 52.2 µg/Kg | < 52.2 µg/Kg |
| Aroclor-1260 | 52.2 µg/Kg | < 52.2 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 91.5 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 86.9 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-3 LF-SB55(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.0 µg/Kg | < 24.0 µg/Kg |
| Acrylonitrile | 5.99 µg/Kg | < 5.99 µg/Kg |
| Benzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| Bromobenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| Bromochloromethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| Bromodichloromethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| Bromoform | 5.99 µg/Kg | < 5.99 µg/Kg |
| Carbon disulfide | 5.99 µg/Kg | < 5.99 µg/Kg |
| Carbon tetrachloride | 5.99 µg/Kg | < 5.99 µg/Kg |
| Chlorobenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| Chloroethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| Chloroform | 5.99 µg/Kg | < 5.99 µg/Kg |
| 2-Chlorotoluene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 4-Chlorotoluene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 2-Chloroethylvinyl ether | 12.0 µg/Kg | < 12.0 µg/Kg |
| Dibromochloromethane | 5.99 µg/Kg | < 5.99 µg/Kg |

REPORT NUMBER : D97-8658-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.9 µg/Kg | < 29.9 µg/Kg |
| 1,2-Dibromoethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,2-Dichlorobenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,3-Dichlorobenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,4-Dichlorobenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| trans-1,4-Dichloro-2-butene | 120 µg/Kg | < 120 µg/Kg |
| 1,1-Dichloroethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,2-Dichloroethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,1-Dichloroethene | 5.99 µg/Kg | < 5.99 µg/Kg |
| cis-1,2-Dichloroethene | 5.99 µg/Kg | < 5.99 µg/Kg |
| trans-1,2-Dichloroethene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,2-Dichloropropane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 2,2-Dichloropropane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,1-Dichloropropene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,3-Dichloropropane | 5.99 µg/Kg | < 5.99 µg/Kg |
| cis-1,3-Dichloropropene | 5.99 µg/Kg | < 5.99 µg/Kg |
| trans-1,3-Dichloropropene | 5.99 µg/Kg | < 5.99 µg/Kg |
| Ethylbenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 2-Hexanone | 59.9 µg/Kg | < 59.9 µg/Kg |
| Bromomethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| Chloromethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| Dibromomethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 2-Butanone | 120 µg/Kg | < 120 µg/Kg |
| Iodomethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| Methylene chloride | 5.99 µg/Kg | < 5.99 µg/Kg |
| 4-Methyl-2-pentanone | 120 µg/Kg | < 120 µg/Kg |

REPORT NUMBER : D97-8658-3
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| Tetrachloroethene | 5.99 µg/Kg | < 5.99 µg/Kg |
| Toluene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,1,1-Trichloroethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,1,2-Trichloroethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| Trichloroethene | 5.99 µg/Kg | < 5.99 µg/Kg |
| Trichlorofluoromethane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,2,3-Trichloropropane | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.99 µg/Kg | < 5.99 µg/Kg |
| Vinyl acetate | 59.9 µg/Kg | < 59.9 µg/Kg |
| Vinyl chloride | 2.40 µg/Kg | < 2.40 µg/Kg |
| m,p-Xylene | 5.99 µg/Kg | < 5.99 µg/Kg |
| o-Xylene | 5.99 µg/Kg | < 5.99 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 95.2 % |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 93.0 % |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-3 LF-SB55(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
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DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-3 LF-SB55(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Acenaphthylene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(a)anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(b)fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(k)fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(g,h,i)perylene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(a)pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzyl alcohol | 0.771 mg/Kg | < 0.771 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-chloroethyl)ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-3
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Carbazole | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Chloroaniline | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Chloronaphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Chrysene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dibenz(a,h)anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dibenzofuran | 0.392 mg/Kg | < 0.392 mg/Kg |
| Di-n-butylphthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,2-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,3-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,4-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.392 mg/Kg | < 0.392 mg/Kg |
| Diethyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dimethyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dinitrotoluene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,6-Dinitrotoluene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Di-n-octylphthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Fluorene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorobutadiene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorocyclopentadiene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachloroethane | 0.392 mg/Kg | < 0.392 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Isophorone | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-3
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Naphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| 3-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| 4-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| Nitrobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| N-Nitrosodiphenylamine | 0.392 mg/Kg | < 0.392 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.392 mg/Kg | < 0.392 mg/Kg |
| Phenanthrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzoic acid | 0.949 mg/Kg | < 0.949 mg/Kg |
| 4-Chloro-3-methylphenol | 0.771 mg/Kg | < 0.771 mg/Kg |
| 2-Chlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dichlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dimethylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2,4-Dinitrophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2-Methylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Methylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Nitrophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Nitrophenol | 0.949 mg/Kg | < 0.949 mg/Kg |
| Pentachlorophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| Phenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4,5-Trichlorophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2,4,6-Trichlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-3
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 63.9 % |
| 2-Fluorobiphenyl (SS) | | 58.6 % |
| Terphenyl-d14 (SS) | | 80.1 % |
| Phenol-d6 (SS) | | 65.3 % |
| 2-Fluorophenol (SS) | | 65.3 % |
| 2,4,6-Tribromophenol (SS) | | 71.3 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-3
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-3 LF-SB55(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.40 mg/Kg |

Applicable results are reported on Dry Weight basis.

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04683

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-4 LF-SB58(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.6 mg/Kg | 13600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.32 mg/Kg | 4.61 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.16 mg/Kg | 58.7 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.78 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-4 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.1 mg/Kg | 27800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.16 mg/Kg | 6.65 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.58 mg/Kg | 10.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.16 mg/Kg | 5.63 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.6 mg/Kg | 17700 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.139 mg/Kg | < 0.139 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |

REPORT NUMBER : D97-8658-4 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 116 | mg/Kg | 2480 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Magnesium | /1 | 116 | mg/Kg | 3560 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Manganese | /1 | 1.16 | mg/Kg | 292 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Sodium | /1 | 116 | mg/Kg | 1610 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Nickel | /1 | 1.16 | mg/Kg | 10.3 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Lead | /1 | 0.581 | mg/Kg | 8.13 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Antimony | /1 | 5.81 | mg/Kg | < 5.81 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |

REPORT NUMBER : D97-8658-4 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.16 mg/Kg | < 1.16 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.69 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.16 mg/Kg | 19.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.32 mg/Kg | 43.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-4 LF-SB58(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS | |
|---|---|---|---|---|
| Total Solids | /1 | 0.01 % | 86.1 % | - |

Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB
QC Batch No : 154100E

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-4 LF-SB58(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2,4-D | 58.1 | µg/Kg | < | 58.1 | µg/Kg |
| 2,4-DB | 58.1 | µg/Kg | < | 58.1 | µg/Kg |
| 2,4,5-T | 5.81 | µg/Kg | < | 5.81 | µg/Kg |
| 2,4,5-TP(Silvex) | 5.81 | µg/Kg | < | 5.81 | µg/Kg |
| Dalapon | 232 | µg/Kg | < | 232 | µg/Kg |
| Dicamba | 5.81 | µg/Kg | < | 5.81 | µg/Kg |
| Dichlorprop | 58.1 | µg/Kg | < | 58.1 | µg/Kg |
| Dinoseb | 23.2 | µg/Kg | < | 23.2 | µg/Kg |
| MCPA | 23200 | µg/Kg | < | 23200 | µg/Kg |
| MCPP | 23200 | µg/Kg | < | 23200 | µg/Kg |



C4F95

REPORT NUMBER : D97-8658-4
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 81.1 % |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-4 LF-SB58(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.11 µg/Kg | < 3.11 µg/Kg |
| Alpha-BHC | 2.33 µg/Kg | < 2.33 µg/Kg |
| Beta-BHC | 4.67 µg/Kg | < 4.67 µg/Kg |
| Delta-BHC | 7.00 µg/Kg | < 7.00 µg/Kg |
| Gamma-BHC(Lindane) | 3.11 µg/Kg | < 3.11 µg/Kg |
| Chlordane | 10.9 µg/Kg | < 10.9 µg/Kg |
| 4,4'-DDD | 8.56 µg/Kg | < 8.56 µg/Kg |
| 4,4'-DDE | 3.11 µg/Kg | < 3.11 µg/Kg |
| 4,4'-DDT | 9.34 µg/Kg | < 9.34 µg/Kg |
| Dieldrin | 1.56 µg/Kg | < 1.56 µg/Kg |
| Endosulfan I | 10.9 µg/Kg | < 10.9 µg/Kg |
| Endosulfan II | 3.11 µg/Kg | < 3.11 µg/Kg |
| Endosulfan Sulfate | 51.4 µg/Kg | < 51.4 µg/Kg |
| Endrin | 4.67 µg/Kg | < 4.67 µg/Kg |

REPORT NUMBER : D97-8658-4
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 17.9 | µg/Kg | < | 17.9 | µg/Kg |
| Heptachlor | 2.33 | µg/Kg | < | 2.33 | µg/Kg |
| Heptachlor Epoxide | 64.6 | µg/Kg | < | 64.6 | µg/Kg |
| Methoxychlor | 137 | µg/Kg | < | 137 | µg/Kg |
| Toxaphene | 187 | µg/Kg | < | 187 | µg/Kg |
| Aroclor-1016 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1221 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1232 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1242 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1248 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1254 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1260 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 83.9 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 79.0 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-4 LF-SB58(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.2 µg/Kg | < 23.2 µg/Kg |
| Acrylonitrile | 5.81 µg/Kg | < 5.81 µg/Kg |
| Benzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromochloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromodichloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromoform | 5.81 µg/Kg | < 5.81 µg/Kg |
| Carbon disulfide | 5.81 µg/Kg | < 5.81 µg/Kg |
| Carbon tetrachloride | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloroform | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Chlorotoluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 4-Chlorotoluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Chloroethylvinyl ether | 11.6 µg/Kg | < 11.6 µg/Kg |
| Dibromochloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |



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REPORT NUMBER : D97-8658-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.0 µg/Kg | < 29.0 µg/Kg |
| 1,2-Dibromoethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,4-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,4-Dichloro-2-butene | 116 µg/Kg | < 116 µg/Kg |
| 1,1-Dichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| cis-1,2-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,2-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2,2-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| cis-1,3-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,3-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Ethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Hexanone | 58.1 µg/Kg | < 58.1 µg/Kg |
| Bromomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dibromomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Butanone | 116 µg/Kg | < 116 µg/Kg |
| Iodomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Methylene chloride | 5.81 µg/Kg | < 5.81 µg/Kg |
| 4-Methyl-2-pentanone | 116 µg/Kg | < 116 µg/Kg |

REPORT NUMBER : D97-8658-4
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Tetrachloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Toluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,1-Trichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,2-Trichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Trichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Trichlorofluoromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,3-Trichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Vinyl acetate | 58.1 µg/Kg | < 58.1 µg/Kg |
| Vinyl chloride | 2.32 µg/Kg | < 2.32 µg/Kg |
| m,p-Xylene | 5.81 µg/Kg | < 5.81 µg/Kg |
| o-Xylene | 5.81 µg/Kg | < 5.81 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 98.0 % |
| Toluene-d8 (SS) | | 101 % |
| Bromofluorobenzene (SS) | | 90.0 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-4 LF-SB58(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
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DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-4 LF-SB58(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : VDL
ANALYZED ON : 22-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-6

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Acenaphthylene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Anthracene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(a)anthracene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(b)fluoranthene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(k)fluoranthene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(g,h,i)perylene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzo(a)pyrene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzyl alcohol | 0.755 mg/Kg | < 0.755 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.383 mg/Kg | < 0.383 mg/Kg |
| Bis(2-chloroethyl)ether | 0.383 mg/Kg | < 0.383 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.383 mg/Kg | < 0.383 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.383 mg/Kg | < 0.383 mg/Kg |



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REPORT NUMBER : D97-8658-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| Carbazole | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Chloroaniline | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2-Chloronaphthalene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.383 mg/Kg | < 0.383 mg/Kg |
| Chrysene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Dibenz(a,h)anthracene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Dibenzofuran | 0.383 mg/Kg | < 0.383 mg/Kg |
| Di-n-butylphthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| 1,2-Dichlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 1,3-Dichlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 1,4-Dichlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.383 mg/Kg | < 0.383 mg/Kg |
| Diethyl phthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| Dimethyl phthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,4-Dinitrotoluene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,6-Dinitrotoluene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Di-n-octylphthalate | 0.383 mg/Kg | < 0.383 mg/Kg |
| Fluoranthene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Fluorene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Hexachlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Hexachlorobutadiene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Hexachlorocyclopentadiene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Hexachloroethane | 0.383 mg/Kg | < 0.383 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Isophorone | 0.383 mg/Kg | < 0.383 mg/Kg |

REPORT NUMBER : D97-8658-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Naphthalene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| 3-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| 4-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| Nitrobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| N-Nitrosodiphenylamine | 0.383 mg/Kg | < 0.383 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.383 mg/Kg | < 0.383 mg/Kg |
| Phenanthrene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Pyrene | 0.383 mg/Kg | < 0.383 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.383 mg/Kg | < 0.383 mg/Kg |
| Benzoic acid | 0.929 mg/Kg | < 0.929 mg/Kg |
| 4-Chloro-3-methylphenol | 0.755 mg/Kg | < 0.755 mg/Kg |
| 2-Chlorophenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,4-Dichlorophenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,4-Dimethylphenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2,4-Dinitrophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2-Methylphenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Methylphenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2-Nitrophenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 4-Nitrophenol | 0.929 mg/Kg | < 0.929 mg/Kg |
| Pentachlorophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| Phenol | 0.383 mg/Kg | < 0.383 mg/Kg |
| 2,4,5-Trichlorophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2,4,6-Trichlorophenol | 0.383 mg/Kg | < 0.383 mg/Kg |



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REPORT NUMBER : D97-8658-4
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 54.2 % |
| 2-Fluorobiphenyl (SS) | | 52.2 % |
| Terphenyl-d14 (SS) | | 70.1 % |
| Phenol-d6 (SS) | | 64.3 % |
| 2-Fluorophenol (SS) | | 47.3 % |
| 2,4,6-Tribromophenol (SS) | | 70.0 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-4
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-4 LF-SB58(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : VDL
ANALYZED ON : 22-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC143-6

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.38 mg/Kg |

Applicable results are reported on Dry Weight basis.

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04707

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-5 LF-SB58(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.7 mg/Kg | 9530 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.33 mg/Kg | 3.33 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.17 mg/Kg | 76.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-5 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.3 mg/Kg | 37200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.17 mg/Kg | 4.50 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.58 mg/Kg | 8.41 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.17 mg/Kg | 3.14 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.7 mg/Kg | 11800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.140 mg/Kg | < 0.140 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |



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REPORT NUMBER : D97-8658-5 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 117 mg/Kg | 1600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 117 mg/Kg | 3000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.17 mg/Kg | 137 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 117 mg/Kg | 2770 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.17 mg/Kg | 6.45 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.583 mg/Kg | 5.82 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 5.83 mg/Kg | < 5.83 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-5 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.17 mg/Kg | < 1.17 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.48 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.17 mg/Kg | 12.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.33 mg/Kg | 25.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-5 LF-SB58(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 85.8 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 154100E | | | |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

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REPORT NUMBER : D97-8658-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-5 LF-SB58(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2,4-D | 58.3 | µg/Kg | < | 58.3 | µg/Kg |
| 2,4-DB | 58.3 | µg/Kg | < | 58.3 | µg/Kg |
| 2,4,5-T | 5.83 | µg/Kg | < | 5.83 | µg/Kg |
| 2,4,5-TP(Silvex) | 5.83 | µg/Kg | < | 5.83 | µg/Kg |
| Dalapon | 233 | µg/Kg | < | 233 | µg/Kg |
| Dicamba | 5.83 | µg/Kg | < | 5.83 | µg/Kg |
| Dichlorprop | 58.3 | µg/Kg | < | 58.3 | µg/Kg |
| Dinoseb | 23.3 | µg/Kg | < | 23.3 | µg/Kg |
| MCPA | 23300 | µg/Kg | < | 23300 | µg/Kg |
| MCPP | 23300 | µg/Kg | < | 23300 | µg/Kg |



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REPORT NUMBER : D97-8658-5
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 80.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-5 LF-SB58(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.12 µg/Kg | < 3.12 µg/Kg |
| Alpha-BHC | 2.34 µg/Kg | < 2.34 µg/Kg |
| Beta-BHC | 4.69 µg/Kg | < 4.69 µg/Kg |
| Delta-BHC | 7.03 µg/Kg | < 7.03 µg/Kg |
| Gamma-BHC(Lindane) | 3.12 µg/Kg | < 3.12 µg/Kg |
| Chlordane | 10.9 µg/Kg | < 10.9 µg/Kg |
| 4,4'-DDD | 8.59 µg/Kg | < 8.59 µg/Kg |
| 4,4'-DDE | 3.12 µg/Kg | < 3.12 µg/Kg |
| 4,4'-DDT | 9.37 µg/Kg | < 9.37 µg/Kg |
| Dieldrin | 1.56 µg/Kg | < 1.56 µg/Kg |
| Endosulfan I | 10.9 µg/Kg | < 10.9 µg/Kg |
| Endosulfan II | 3.12 µg/Kg | < 3.12 µg/Kg |
| Endosulfan Sulfate | 51.5 µg/Kg | < 51.5 µg/Kg |
| Endrin | 4.69 µg/Kg | < 4.69 µg/Kg |

REPORT NUMBER : D97-8658-5
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.0 µg/Kg | < 18.0 µg/Kg |
| Heptachlor | 2.34 µg/Kg | < 2.34 µg/Kg |
| Heptachlor Epoxide | 64.8 µg/Kg | < 64.8 µg/Kg |
| Methoxychlor | 137 µg/Kg | < 137 µg/Kg |
| Toxaphene | 187 µg/Kg | < 187 µg/Kg |
| Aroclor-1016 | 50.8 µg/Kg | < 50.8 µg/Kg |
| Aroclor-1221 | 50.8 µg/Kg | < 50.8 µg/Kg |
| Aroclor-1232 | 50.8 µg/Kg | < 50.8 µg/Kg |
| Aroclor-1242 | 50.8 µg/Kg | < 50.8 µg/Kg |
| Aroclor-1248 | 50.8 µg/Kg | < 50.8 µg/Kg |
| Aroclor-1254 | 50.8 µg/Kg | < 50.8 µg/Kg |
| Aroclor-1260 | 50.8 µg/Kg | < 50.8 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 83.1 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 82.8 % |

Applicable results are reported on Dry Weight basis.

# Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-5 LF-SB58(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.3 µg/Kg | < 23.3 µg/Kg |
| Acrylonitrile | 5.83 µg/Kg | < 5.83 µg/Kg |
| Benzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| Bromobenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| Bromochloromethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| Bromodichloromethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| Bromoform | 5.83 µg/Kg | < 5.83 µg/Kg |
| Carbon disulfide | 5.83 µg/Kg | < 5.83 µg/Kg |
| Carbon tetrachloride | 5.83 µg/Kg | < 5.83 µg/Kg |
| Chlorobenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| Chloroethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| Chloroform | 5.83 µg/Kg | < 5.83 µg/Kg |
| 2-Chlorotoluene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 4-Chlorotoluene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 2-Chloroethylvinyl ether | 11.7 µg/Kg | < 11.7 µg/Kg |
| Dibromochloromethane | 5.83 µg/Kg | < 5.83 µg/Kg |



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REPORT NUMBER : D97-8658-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.1 µg/Kg | < 29.1 µg/Kg |
| 1,2-Dibromoethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,2-Dichlorobenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,3-Dichlorobenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,4-Dichlorobenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| trans-1,4-Dichloro-2-butene | 117 µg/Kg | < 117 µg/Kg |
| 1,1-Dichloroethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,2-Dichloroethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,1-Dichloroethene | 5.83 µg/Kg | < 5.83 µg/Kg |
| cis-1,2-Dichloroethene | 5.83 µg/Kg | < 5.83 µg/Kg |
| trans-1,2-Dichloroethene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,2-Dichloropropane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 2,2-Dichloropropane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,1-Dichloropropene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,3-Dichloropropane | 5.83 µg/Kg | < 5.83 µg/Kg |
| cis-1,3-Dichloropropene | 5.83 µg/Kg | < 5.83 µg/Kg |
| trans-1,3-Dichloropropene | 5.83 µg/Kg | < 5.83 µg/Kg |
| Ethylbenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 2-Hexanone | 58.3 µg/Kg | < 58.3 µg/Kg |
| Bromomethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| Chloromethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| Dibromomethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 2-Butanone | 117 µg/Kg | < 117 µg/Kg |
| Iodomethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| Methylene chloride | 5.83 µg/Kg | < 5.83 µg/Kg |
| 4-Methyl-2-pentanone | 117 µg/Kg | < 117 µg/Kg |

REPORT NUMBER : D97-8658-5
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| Tetrachloroethene | 5.83 µg/Kg | < 5.83 µg/Kg |
| Toluene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,1,1-Trichloroethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,1,2-Trichloroethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| Trichloroethene | 5.83 µg/Kg | < 5.83 µg/Kg |
| Trichlorofluoromethane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,2,3-Trichloropropane | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.83 µg/Kg | < 5.83 µg/Kg |
| Vinyl acetate | 58.3 µg/Kg | < 58.3 µg/Kg |
| Vinyl chloride | 2.33 µg/Kg | < 2.33 µg/Kg |
| m,p-Xylene | 5.83 µg/Kg | < 5.83 µg/Kg |
| o-Xylene | 5.83 µg/Kg | < 5.83 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 95.4 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 97.6 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-5 LF-SB58(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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# ITS Intertek Testing Services
## Environmental Laboratories

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REPORT NUMBER : D97-8658-5
REPORT DATE : 30-JUL-1997

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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-5 LF-SB58(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Acenaphthylene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Anthracene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Benzo(a)anthracene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Benzo(b)fluoranthene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Benzo(k)fluoranthene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Benzo(g,h,i)perylene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Benzo(a)pyrene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Benzyl alcohol | 0.758 mg/Kg | < 0.758 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.385 mg/Kg | < 0.385 mg/Kg |
| Bis(2-chloroethyl)ether | 0.385 mg/Kg | < 0.385 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.385 mg/Kg | < 0.385 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.385 mg/Kg | < 0.385 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.385 mg/Kg | < 0.385 mg/Kg |

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REPORT NUMBER : D97-8658-5
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.385 mg/Kg | < 0.385 mg/Kg |
| Carbazole | 0.385 mg/Kg | < 0.385 mg/Kg |
| 4-Chloroaniline | 0.385 mg/Kg | < 0.385 mg/Kg |
| 2-Chloronaphthalene | 0.385 mg/Kg | < 0.385 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.385 mg/Kg | < 0.385 mg/Kg |
| Chrysene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Dibenz(a,h)anthracene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Dibenzofuran | 0.385 mg/Kg | < 0.385 mg/Kg |
| Di-n-butylphthalate | 0.385 mg/Kg | < 0.385 mg/Kg |
| 1,2-Dichlorobenzene | 0.385 mg/Kg | < 0.385 mg/Kg |
| 1,3-Dichlorobenzene | 0.385 mg/Kg | < 0.385 mg/Kg |
| 1,4-Dichlorobenzene | 0.385 mg/Kg | < 0.385 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.385 mg/Kg | < 0.385 mg/Kg |
| Diethyl phthalate | 0.385 mg/Kg | < 0.385 mg/Kg |
| Dimethyl phthalate | 0.385 mg/Kg | < 0.385 mg/Kg |
| 2,4-Dinitrotoluene | 0.385 mg/Kg | < 0.385 mg/Kg |
| 2,6-Dinitrotoluene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Di-n-octylphthalate | 0.385 mg/Kg | < 0.385 mg/Kg |
| Fluoranthene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Fluorene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Hexachlorobenzene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Hexachlorobutadiene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Hexachlorocyclopentadiene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Hexachloroethane | 0.385 mg/Kg | < 0.385 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Isophorone | 0.385 mg/Kg | < 0.385 mg/Kg |

REPORT NUMBER : D97-8658-5
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Naphthalene | 0.385 mg/Kg | < 0.385 mg/Kg |
| 2-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| 3-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| 4-Nitroaniline | 1.92 mg/Kg | < 1.92 mg/Kg |
| Nitrobenzene | 0.385 mg/Kg | < 0.385 mg/Kg |
| N-Nitrosodiphenylamine | 0.385 mg/Kg | < 0.385 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.385 mg/Kg | < 0.385 mg/Kg |
| Phenanthrene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Pyrene | 0.385 mg/Kg | < 0.385 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.385 mg/Kg | < 0.385 mg/Kg |
| Benzoic acid | 0.932 mg/Kg | < 0.932 mg/Kg |
| 4-Chloro-3-methylphenol | 0.758 mg/Kg | < 0.758 mg/Kg |
| 2-Chlorophenol | 0.385 mg/Kg | < 0.385 mg/Kg |
| 2,4-Dichlorophenol | 0.385 mg/Kg | < 0.385 mg/Kg |
| 2,4-Dimethylphenol | 0.385 mg/Kg | < 0.385 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2,4-Dinitrophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2-Methylphenol | 0.385 mg/Kg | < 0.385 mg/Kg |
| 4-Methylphenol | 0.385 mg/Kg | < 0.385 mg/Kg |
| 2-Nitrophenol | 0.385 mg/Kg | < 0.385 mg/Kg |
| 4-Nitrophenol | 0.932 mg/Kg | < 0.932 mg/Kg |
| Pentachlorophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| Phenol | 0.385 mg/Kg | < 0.385 mg/Kg |
| 2,4,5-Trichlorophenol | 1.92 mg/Kg | < 1.92 mg/Kg |
| 2,4,6-Trichlorophenol | 0.385 mg/Kg | < 0.385 mg/Kg |

REPORT NUMBER : D97-8658-5 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 70.7 % |
| 2-Fluorobiphenyl (SS) | | 54.1 % |
| Terphenyl-d14 (SS) | | 72.5 % |
| Phenol-d6 (SS) | | 67.9 % |
| 2-Fluorophenol (SS) | | 69.7 % |
| 2,4,6-Tribromophenol (SS) | | 77.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-5
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-5 LF-SB58(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.38 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-6
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-6 LF-SB58(6.5)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.8 mg/Kg | 10400 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.35 mg/Kg | 3.89 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.18 mg/Kg | 200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.75 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

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REPORT NUMBER : D97-8658-6 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.8 mg/Kg | 27000 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.18 mg/Kg | 5.09 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.59 mg/Kg | 9.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.18 mg/Kg | 4.36 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.8 mg/Kg | 19400 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.141 mg/Kg | < 0.141 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |



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REPORT NUMBER : D97-8658-6 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 118 | mg/Kg | 1610 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Magnesium | /1 | 118 | mg/Kg | 3120 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Manganese | /1 | 1.18 | mg/Kg | 166 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Sodium | /1 | 118 | mg/Kg | 3230 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Nickel | /1 | 1.18 | mg/Kg | 8.12 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Lead | /1 | 0.588 | mg/Kg | 7.81 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Antimony | /1 | 5.88 | mg/Kg | < 5.88 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |

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| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.18 mg/Kg | < 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.18 mg/Kg | 15.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.35 mg/Kg | 30.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

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REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-6 LF-SB58(6.5)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 85.0 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 155001F | | | |

Applicable results are reported on Dry Weight basis.

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SAMPLE MATRIX : Soil
ID MARKS : S70326-6 LF-SB58(6.5)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.8 µg/Kg | < 58.8 µg/Kg |
| 2,4-DB | 58.8 µg/Kg | < 58.8 µg/Kg |
| 2,4,5-T | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2,4,5-TP(Silvex) | 5.88 µg/Kg | < 5.88 µg/Kg |
| Dalapon | 235 µg/Kg | < 235 µg/Kg |
| Dicamba | 5.88 µg/Kg | < 5.88 µg/Kg |
| Dichlorprop | 58.8 µg/Kg | < 58.8 µg/Kg |
| Dinoseb | 23.5 µg/Kg | < 23.5 µg/Kg |
| MCPA | 23500 µg/Kg | < 23500 µg/Kg |
| MCPP | 23500 µg/Kg | < 23500 µg/Kg |



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REPORT NUMBER : D97-8658-6
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 65.5 % |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

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SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-6 LF-SB58(6.5)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.15 µg/Kg | < 3.15 µg/Kg |
| Alpha-BHC | 2.36 µg/Kg | < 2.36 µg/Kg |
| Beta-BHC | 4.73 µg/Kg | < 4.73 µg/Kg |
| Delta-BHC | 7.09 µg/Kg | < 7.09 µg/Kg |
| Gamma-BHC(Lindane) | 3.15 µg/Kg | < 3.15 µg/Kg |
| Chlordane | 11.0 µg/Kg | < 11.0 µg/Kg |
| 4,4'-DDD | 8.67 µg/Kg | < 8.67 µg/Kg |
| 4,4'-DDE | 3.15 µg/Kg | < 3.15 µg/Kg |
| 4,4'-DDT | 9.46 µg/Kg | < 9.46 µg/Kg |
| Dieldrin | 1.58 µg/Kg | < 1.58 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < 11.0 µg/Kg |
| Endosulfan II | 3.15 µg/Kg | < 3.15 µg/Kg |
| Endosulfan Sulfate | 52.0 µg/Kg | < 52.0 µg/Kg |
| Endrin | 4.73 µg/Kg | < 4.73 µg/Kg |

REPORT NUMBER : D97-8658-6
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.1 µg/Kg | < 18.1 µg/Kg |
| Heptachlor | 2.36 µg/Kg | < 2.36 µg/Kg |
| Heptachlor Epoxide | 65.4 µg/Kg | < 65.4 µg/Kg |
| Methoxychlor | 139 µg/Kg | < 139 µg/Kg |
| Toxaphene | 189 µg/Kg | < 189 µg/Kg |
| Aroclor-1016 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1221 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1232 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1242 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1248 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1254 | 51.2 µg/Kg | < 51.2 µg/Kg |
| Aroclor-1260 | 51.2 µg/Kg | < 51.2 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 92.3 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 83.2 % |

Applicable results are reported on Dry Weight basis.

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SAMPLE MATRIX : Soil
ID MARKS : S70326-6 LF-SB58(6.5)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.5 µg/Kg | < 23.5 µg/Kg |
| Acrylonitrile | 5.88 µg/Kg | < 5.88 µg/Kg |
| Benzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromochloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromodichloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Bromoform | 5.88 µg/Kg | < 5.88 µg/Kg |
| Carbon disulfide | 5.88 µg/Kg | < 5.88 µg/Kg |
| Carbon tetrachloride | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloroform | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Chlorotoluene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 4-Chlorotoluene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Chloroethylvinyl ether | 11.8 µg/Kg | < 11.8 µg/Kg |
| Dibromochloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |



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REPORT NUMBER : D97-8658-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.4 µg/Kg | < 29.4 µg/Kg |
| 1,2-Dibromoethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,3-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,4-Dichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,4-Dichloro-2-butene | 118 µg/Kg | < 118 µg/Kg |
| 1,1-Dichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| cis-1,2-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,2-Dichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2,2-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,3-Dichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| cis-1,3-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| trans-1,3-Dichloropropene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Ethylbenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Hexanone | 58.8 µg/Kg | < 58.8 µg/Kg |
| Bromomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Chloromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Dibromomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 2-Butanone | 118 µg/Kg | < 118 µg/Kg |
| Iodomethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Methylene chloride | 5.88 µg/Kg | < 5.88 µg/Kg |
| 4-Methyl-2-pentanone | 118 µg/Kg | < 118 µg/Kg |

REPORT NUMBER : D97-8658-6
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Tetrachloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Toluene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1,1-Trichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,1,2-Trichloroethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| Trichloroethene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Trichlorofluoromethane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2,3-Trichloropropane | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.88 µg/Kg | < 5.88 µg/Kg |
| Vinyl acetate | 58.8 µg/Kg | < 58.8 µg/Kg |
| Vinyl chloride | 2.35 µg/Kg | < 2.35 µg/Kg |
| m,p-Xylene | 5.88 µg/Kg | < 5.88 µg/Kg |
| o-Xylene | 5.88 µg/Kg | < 5.88 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 96.8 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 92.8 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

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: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Acenaphthylene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Anthracene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(a)anthracene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(b)fluoranthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(k)fluoranthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(g,h,i)perylene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzo(a)pyrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzyl alcohol | 0.762 mg/Kg | < 0.762 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-chloroethyl)ether | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.387 mg/Kg | < 0.387 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.387 mg/Kg | < 0.387 mg/Kg |

REPORT NUMBER : D97-8658-6
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| Carbazole | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Chloroaniline | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2-Chloronaphthalene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.387 mg/Kg | < 0.387 mg/Kg |
| Chrysene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Dibenz(a,h)anthracene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Dibenzofuran | 0.387 mg/Kg | < 0.387 mg/Kg |
| Di-n-butylphthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| 1,2-Dichlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 1,3-Dichlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 1,4-Dichlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.387 mg/Kg | < 0.387 mg/Kg |
| Diethyl phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| Dimethyl phthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,4-Dinitrotoluene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,6-Dinitrotoluene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Di-n-octylphthalate | 0.387 mg/Kg | < 0.387 mg/Kg |
| Fluoranthene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Fluorene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Hexachlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Hexachlorobutadiene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Hexachlorocyclopentadiene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Hexachloroethane | 0.387 mg/Kg | < 0.387 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Isophorone | 0.387 mg/Kg | < 0.387 mg/Kg |

REPORT NUMBER : D97-8658-6
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Naphthalene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| 3-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| 4-Nitroaniline | 1.94 mg/Kg | < 1.94 mg/Kg |
| Nitrobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| N-Nitrosodiphenylamine | 0.387 mg/Kg | < 0.387 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.387 mg/Kg | < 0.387 mg/Kg |
| Phenanthrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Pyrene | 0.387 mg/Kg | < 0.387 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.387 mg/Kg | < 0.387 mg/Kg |
| Benzoic acid | 0.938 mg/Kg | < 0.938 mg/Kg |
| 4-Chloro-3-methylphenol | 0.762 mg/Kg | < 0.762 mg/Kg |
| 2-Chlorophenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,4-Dichlorophenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,4-Dimethylphenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2,4-Dinitrophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2-Methylphenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Methylphenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2-Nitrophenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 4-Nitrophenol | 0.938 mg/Kg | < 0.938 mg/Kg |
| Pentachlorophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| Phenol | 0.387 mg/Kg | < 0.387 mg/Kg |
| 2,4,5-Trichlorophenol | 1.94 mg/Kg | < 1.94 mg/Kg |
| 2,4,6-Trichlorophenol | 0.387 mg/Kg | < 0.387 mg/Kg |

REPORT NUMBER : D97-8658-6
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 70.5 % |
| 2-Fluorobiphenyl (SS) | | 64.5 % |
| Terphenyl-d14 (SS) | | 63.9 % |
| Phenol-d6 (SS) | | 85.2 % |
| 2-Fluorophenol (SS) | | 73.8 % |
| 2,4,6-Tribromophenol (SS) | | 79.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-6
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-6 LF-SB58(6.5)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-7 LF-SB47(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.6 mg/Kg | 9770 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.32 mg/Kg | 3.90 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.16 mg/Kg | 34.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.69 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-7 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.1 mg/Kg | 31600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.16 mg/Kg | 6.97 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.58 mg/Kg | 10.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.16 mg/Kg | 4.46 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.6 mg/Kg | 17100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.139 mg/Kg | < 0.139 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |

REPORT NUMBER : D97-8658-7 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 116 mg/Kg | 1960 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 116 mg/Kg | 3220 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.16 mg/Kg | 113 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 116 mg/Kg | 200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.16 mg/Kg | 10.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.581 mg/Kg | 7.76 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 5.81 mg/Kg | < 5.81 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-7 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.16 mg/Kg | < 1.16 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.16 mg/Kg | 12.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.32 mg/Kg | 42.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-7 LF-SB47(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 86.1 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 155001F | | | |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-7 LF-SB47(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.1 µg/Kg | < 58.1 µg/Kg |
| 2,4-DB | 58.1 µg/Kg | < 58.1 µg/Kg |
| 2,4,5-T | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2,4,5-TP(Silvex) | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dalapon | 232 µg/Kg | < 232 µg/Kg |
| Dicamba | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dichlorprop | 58.1 µg/Kg | < 58.1 µg/Kg |
| Dinoseb | 23.2 µg/Kg | < 23.2 µg/Kg |
| MCPA | 23200 µg/Kg | < 23200 µg/Kg |
| MCPP | 23200 µg/Kg | < 23200 µg/Kg |

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04743

REPORT NUMBER : D97-8658-7
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 71.2 % |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-7 LF-SB47(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.11 µg/Kg | < 3.11 µg/Kg |
| Alpha-BHC | 2.33 µg/Kg | < 2.33 µg/Kg |
| Beta-BHC | 4.67 µg/Kg | < 4.67 µg/Kg |
| Delta-BHC | 7.00 µg/Kg | < 7.00 µg/Kg |
| Gamma-BHC(Lindane) | 3.11 µg/Kg | < 3.11 µg/Kg |
| Chlordane | 10.9 µg/Kg | < 10.9 µg/Kg |
| 4,4'-DDD | 8.56 µg/Kg | < 8.56 µg/Kg |
| 4,4'-DDE | 3.11 µg/Kg | < 3.11 µg/Kg |
| 4,4'-DDT | 9.34 µg/Kg | < 9.34 µg/Kg |
| Dieldrin | 1.56 µg/Kg | < 1.56 µg/Kg |
| Endosulfan I | 10.9 µg/Kg | < 10.9 µg/Kg |
| Endosulfan II | 3.11 µg/Kg | < 3.11 µg/Kg |
| Endosulfan Sulfate | 51.4 µg/Kg | < 51.4 µg/Kg |
| Endrin | 4.67 µg/Kg | < 4.67 µg/Kg |

REPORT NUMBER : D97-8658-7
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Endrin Aldehyde | 17.9 | µg/Kg | < | 17.9 | µg/Kg |
| Heptachlor | 2.33 | µg/Kg | < | 2.33 | µg/Kg |
| Heptachlor Epoxide | 64.6 | µg/Kg | < | 64.6 | µg/Kg |
| Methoxychlor | 137 | µg/Kg | < | 137 | µg/Kg |
| Toxaphene | 187 | µg/Kg | < | 187 | µg/Kg |
| Aroclor-1016 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1221 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1232 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1242 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1248 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1254 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |
| Aroclor-1260 | 50.6 | µg/Kg | < | 50.6 | µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 92.0 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 82.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-7 LF-SB47(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.2 µg/Kg | < 23.2 µg/Kg |
| Acrylonitrile | 5.81 µg/Kg | < 5.81 µg/Kg |
| Benzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromochloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromodichloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromoform | 5.81 µg/Kg | < 5.81 µg/Kg |
| Carbon disulfide | 5.81 µg/Kg | < 5.81 µg/Kg |
| Carbon tetrachloride | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloroform | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Chlorotoluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 4-Chlorotoluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Chloroethylvinyl ether | 11.6 µg/Kg | < 11.6 µg/Kg |
| Dibromochloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |

REPORT NUMBER : D97-8658-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.0 µg/Kg | < 29.0 µg/Kg |
| 1,2-Dibromoethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,4-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,4-Dichloro-2-butene | 116 µg/Kg | < 116 µg/Kg |
| 1,1-Dichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| cis-1,2-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,2-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2,2-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| cis-1,3-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,3-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Ethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Hexanone | 58.1 µg/Kg | < 58.1 µg/Kg |
| Bromomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dibromomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Butanone | 116 µg/Kg | < 116 µg/Kg |
| Iodomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Methylene chloride | 5.81 µg/Kg | < 5.81 µg/Kg |
| 4-Methyl-2-pentanone | 116 µg/Kg | < 116 µg/Kg |

REPORT NUMBER : D97-8658-7
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Tetrachloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Toluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,1-Trichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,2-Trichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Trichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Trichlorofluoromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,3-Trichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Vinyl acetate | 58.1 µg/Kg | < 58.1 µg/Kg |
| Vinyl chloride | 2.32 µg/Kg | < 2.32 µg/Kg |
| m,p-Xylene | 5.81 µg/Kg | < 5.81 µg/Kg |
| o-Xylene | 5.81 µg/Kg | < 5.81 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 96.4 % |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 89.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-7 LF-SB47(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
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DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-7 LF-SB47(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Acenaphthylene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Anthracene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(a)anthracene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(b)fluoranthene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(k)fluoranthene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(g,h,i)perylene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(a)pyrene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzyl alcohol | 0.745 mg/Kg | < 0.745 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.379 mg/Kg | < 0.379 mg/Kg |
| Bis(2-chloroethyl)ether | 0.379 mg/Kg | < 0.379 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.379 mg/Kg | < 0.379 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.379 mg/Kg | < 0.379 mg/Kg |



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REPORT NUMBER : D97-8658-7
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| Carbazole | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Chloroaniline | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2-Chloronaphthalene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.379 mg/Kg | < 0.379 mg/Kg |
| Chrysene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Dibenz(a,h)anthracene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Dibenzofuran | 0.379 mg/Kg | < 0.379 mg/Kg |
| Di-n-butylphthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| 1,2-Dichlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 1,3-Dichlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 1,4-Dichlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.379 mg/Kg | < 0.379 mg/Kg |
| Diethyl phthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| Dimethyl phthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,4-Dinitrotoluene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,6-Dinitrotoluene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Di-n-octylphthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| Fluoranthene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Fluorene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Hexachlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Hexachlorobutadiene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Hexachlorocyclopentadiene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Hexachloroethane | 0.379 mg/Kg | < 0.379 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Isophorone | 0.379 mg/Kg | < 0.379 mg/Kg |

REPORT NUMBER : D97-8658-7
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Naphthalene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| 3-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| 4-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| Nitrobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| N-Nitrosodiphenylamine | 0.379 mg/Kg | < 0.379 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.379 mg/Kg | < 0.379 mg/Kg |
| Phenanthrene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Pyrene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzoic acid | 0.917 mg/Kg | < 0.917 mg/Kg |
| 4-Chloro-3-methylphenol | 0.745 mg/Kg | < 0.745 mg/Kg |
| 2-Chlorophenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,4-Dichlorophenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,4-Dimethylphenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2,4-Dinitrophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2-Methylphenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Methylphenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2-Nitrophenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Nitrophenol | 0.917 mg/Kg | < 0.917 mg/Kg |
| Pentachlorophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| Phenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,4,5-Trichlorophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2,4,6-Trichlorophenol | 0.379 mg/Kg | < 0.379 mg/Kg |



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REPORT NUMBER : D97-8658-7 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 70.7 % |
| 2-Fluorobiphenyl (SS) | | 73.8 % |
| Terphenyl-d14 (SS) | | 77.4 % |
| Phenol-d6 (SS) | | 82.7 % |
| 2-Fluorophenol (SS) | | 71.4 % |
| 2,4,6-Tribromophenol (SS) | | 83.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-7
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-7 LF-SB47(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.38 mg/Kg |

Applicable results are reported on Dry Weight basis.

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04761

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-8 LF-SB47(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.6 mg/Kg | 7880 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.33 mg/Kg | 4.05 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.16 mg/Kg | 9.67 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

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REPORT NUMBER : D97-8658-8 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.2 mg/Kg | 31400 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.16 mg/Kg | 21.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.58 mg/Kg | 9.02 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.16 mg/Kg | 2.94 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.6 mg/Kg | 24600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.140 mg/Kg | < 0.140 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |

REPORT NUMBER : D97-8658-8 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 116 mg/Kg | 1570 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 116 mg/Kg | 2720 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.16 mg/Kg | 87.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 116 mg/Kg | 648 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.16 mg/Kg | 15.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.582 mg/Kg | 7.01 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 5.82 mg/Kg | < 5.82 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-8 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.16 mg/Kg | < 1.16 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.56 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.16 mg/Kg | 5.32 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.33 mg/Kg | 84.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-8 LF-SB47(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 85.9 % |

Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB
QC Batch No : 155001F

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-8 LF-SB47(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.2 µg/Kg | < 58.2 µg/Kg |
| 2,4-DB | 58.2 µg/Kg | < 58.2 µg/Kg |
| 2,4,5-T | 5.82 µg/Kg | < 5.82 µg/Kg |
| 2,4,5-TP(Silvex) | 5.82 µg/Kg | < 5.82 µg/Kg |
| Dalapon | 233 µg/Kg | < 233 µg/Kg |
| Dicamba | 5.82 µg/Kg | < 5.82 µg/Kg |
| Dichlorprop | 58.2 µg/Kg | < 58.2 µg/Kg |
| Dinoseb | 23.3 µg/Kg | < 23.3 µg/Kg |
| MCPA | 23300 µg/Kg | < 23300 µg/Kg |
| MCPP | 23300 µg/Kg | < 23300 µg/Kg |



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REPORT NUMBER : D97-8658-8
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 80.2 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-8 LF-SB47(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.12 µg/Kg | < 3.12 µg/Kg |
| Alpha-BHC | 2.34 µg/Kg | < 2.34 µg/Kg |
| Beta-BHC | 4.68 µg/Kg | < 4.68 µg/Kg |
| Delta-BHC | 7.02 µg/Kg | < 7.02 µg/Kg |
| Gamma-BHC(Lindane) | 3.12 µg/Kg | < 3.12 µg/Kg |
| Chlordane | 10.9 µg/Kg | < 10.9 µg/Kg |
| 4,4'-DDD | 8.58 µg/Kg | < 8.58 µg/Kg |
| 4,4'-DDE | 3.12 µg/Kg | < 3.12 µg/Kg |
| 4,4'-DDT | 9.36 µg/Kg | < 9.36 µg/Kg |
| Dieldrin | 1.56 µg/Kg | < 1.56 µg/Kg |
| Endosulfan I | 10.9 µg/Kg | < 10.9 µg/Kg |
| Endosulfan II | 3.12 µg/Kg | < 3.12 µg/Kg |
| Endosulfan Sulfate | 51.5 µg/Kg | < 51.5 µg/Kg |
| Endrin | 4.68 µg/Kg | < 4.68 µg/Kg |



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REPORT NUMBER : D97-8658-8
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 17.9 µg/Kg | < 17.9 µg/Kg |
| Heptachlor | 2.34 µg/Kg | < 2.34 µg/Kg |
| Heptachlor Epoxide | 64.7 µg/Kg | < 64.7 µg/Kg |
| Methoxychlor | 137 µg/Kg | < 137 µg/Kg |
| Toxaphene | 187 µg/Kg | < 187 µg/Kg |
| Aroclor-1016 | 50.7 µg/Kg | < 50.7 µg/Kg |
| Aroclor-1221 | 50.7 µg/Kg | < 50.7 µg/Kg |
| Aroclor-1232 | 50.7 µg/Kg | < 50.7 µg/Kg |
| Aroclor-1242 | 50.7 µg/Kg | < 50.7 µg/Kg |
| Aroclor-1248 | 50.7 µg/Kg | < 50.7 µg/Kg |
| Aroclor-1254 | 50.7 µg/Kg | < 50.7 µg/Kg |
| Aroclor-1260 | 50.7 µg/Kg | < 50.7 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 101 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 94.0 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-8 LF-SB47(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.3 µg/Kg | < 23.3 µg/Kg |
| Acrylonitrile | 5.82 µg/Kg | < 5.82 µg/Kg |
| Benzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| Bromobenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| Bromochloromethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| Bromodichloromethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| Bromoform | 5.82 µg/Kg | < 5.82 µg/Kg |
| Carbon disulfide | 5.82 µg/Kg | < 5.82 µg/Kg |
| Carbon tetrachloride | 5.82 µg/Kg | < 5.82 µg/Kg |
| Chlorobenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| Chloroethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| Chloroform | 5.82 µg/Kg | < 5.82 µg/Kg |
| 2-Chlorotoluene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 4-Chlorotoluene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 2-Chloroethylvinyl ether | 11.6 µg/Kg | < 11.6 µg/Kg |
| Dibromochloromethane | 5.82 µg/Kg | < 5.82 µg/Kg |

REPORT NUMBER : D97-8658-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.1 µg/Kg | < 29.1 µg/Kg |
| 1,2-Dibromoethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,2-Dichlorobenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,3-Dichlorobenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,4-Dichlorobenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| trans-1,4-Dichloro-2-butene | 116 µg/Kg | < 116 µg/Kg |
| 1,1-Dichloroethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,2-Dichloroethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,1-Dichloroethene | 5.82 µg/Kg | < 5.82 µg/Kg |
| cis-1,2-Dichloroethene | 5.82 µg/Kg | < 5.82 µg/Kg |
| trans-1,2-Dichloroethene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,2-Dichloropropane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 2,2-Dichloropropane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,1-Dichloropropene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,3-Dichloropropane | 5.82 µg/Kg | < 5.82 µg/Kg |
| cis-1,3-Dichloropropene | 5.82 µg/Kg | < 5.82 µg/Kg |
| trans-1,3-Dichloropropene | 5.82 µg/Kg | < 5.82 µg/Kg |
| Ethylbenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 2-Hexanone | 58.2 µg/Kg | < 58.2 µg/Kg |
| Bromomethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| Chloromethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| Dibromomethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 2-Butanone | 116 µg/Kg | < 116 µg/Kg |
| Iodomethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| Methylene chloride | 5.82 µg/Kg | < 5.82 µg/Kg |
| 4-Methyl-2-pentanone | 116 µg/Kg | < 116 µg/Kg |

REPORT NUMBER : D97-8658-8
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| Tetrachloroethene | 5.82 µg/Kg | < 5.82 µg/Kg |
| Toluene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,1,1-Trichloroethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,1,2-Trichloroethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| Trichloroethene | 5.82 µg/Kg | < 5.82 µg/Kg |
| Trichlorofluoromethane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,2,3-Trichloropropane | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.82 µg/Kg | < 5.82 µg/Kg |
| Vinyl acetate | 58.2 µg/Kg | < 58.2 µg/Kg |
| Vinyl chloride | 2.33 µg/Kg | < 2.33 µg/Kg |
| m,p-Xylene | 5.82 µg/Kg | < 5.82 µg/Kg |
| o-Xylene | 5.82 µg/Kg | < 5.82 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 99.2 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 94.6 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-8 LF-SB47(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-8 LF-SB47(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WWY
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Acenaphthylene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Anthracene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(a)anthracene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(b)fluoranthene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(k)fluoranthene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(g,h,i)perylene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzo(a)pyrene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzyl alcohol | 0.747 mg/Kg | < 0.747 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.380 mg/Kg | < 0.380 mg/Kg |
| Bis(2-chloroethyl)ether | 0.380 mg/Kg | < 0.380 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.380 mg/Kg | < 0.380 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.380 mg/Kg | < 0.380 mg/Kg |



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REPORT NUMBER : D97-8658-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| Carbazole | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Chloroaniline | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2-Chloronaphthalene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.380 mg/Kg | < 0.380 mg/Kg |
| Chrysene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Dibenz(a,h)anthracene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Dibenzofuran | 0.380 mg/Kg | < 0.380 mg/Kg |
| Di-n-butylphthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| 1,2-Dichlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 1,3-Dichlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 1,4-Dichlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.380 mg/Kg | < 0.380 mg/Kg |
| Diethyl phthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| Dimethyl phthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,4-Dinitrotoluene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,6-Dinitrotoluene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Di-n-octylphthalate | 0.380 mg/Kg | < 0.380 mg/Kg |
| Fluoranthene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Fluorene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Hexachlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Hexachlorobutadiene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Hexachlorocyclopentadiene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Hexachloroethane | 0.380 mg/Kg | < 0.380 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Isophorone | 0.380 mg/Kg | < 0.380 mg/Kg |

REPORT NUMBER : D97-8658-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Naphthalene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2-Nitroaniline | 1.90 mg/Kg | < 1.90 mg/Kg |
| 3-Nitroaniline | 1.90 mg/Kg | < 1.90 mg/Kg |
| 4-Nitroaniline | 1.90 mg/Kg | < 1.90 mg/Kg |
| Nitrobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| N-Nitrosodiphenylamine | 0.380 mg/Kg | < 0.380 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.380 mg/Kg | < 0.380 mg/Kg |
| Phenanthrene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Pyrene | 0.380 mg/Kg | < 0.380 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.380 mg/Kg | < 0.380 mg/Kg |
| Benzoic acid | 0.920 mg/Kg | < 0.920 mg/Kg |
| 4-Chloro-3-methylphenol | 0.747 mg/Kg | < 0.747 mg/Kg |
| 2-Chlorophenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,4-Dichlorophenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,4-Dimethylphenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.90 mg/Kg | < 1.90 mg/Kg |
| 2,4-Dinitrophenol | 1.90 mg/Kg | < 1.90 mg/Kg |
| 2-Methylphenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Methylphenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2-Nitrophenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 4-Nitrophenol | 0.920 mg/Kg | < 0.920 mg/Kg |
| Pentachlorophenol | 1.90 mg/Kg | < 1.90 mg/Kg |
| Phenol | 0.380 mg/Kg | < 0.380 mg/Kg |
| 2,4,5-Trichlorophenol | 1.90 mg/Kg | < 1.90 mg/Kg |
| 2,4,6-Trichlorophenol | 0.380 mg/Kg | < 0.380 mg/Kg |



0477?

REPORT NUMBER : D97-8658-8
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 71.3 % |
| 2-Fluorobiphenyl (SS) | | 73.2 % |
| Terphenyl-d14 (SS) | | 95.1 % |
| Phenol-d6 (SS) | | 71.1 % |
| 2-Fluorophenol (SS) | | 75.4 % |
| 2,4,6-Tribromophenol (SS) | | 79.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-8
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-8 LF-SB47(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WWY
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.38 mg/Kg |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

# ENVIRONMENTAL CHEMICAL CORPORATION

SAMPLE NUMBER

**S70326-9**

Customer: **US ARMY CORPS OF ENGINEERS - SWDL**

Source: Laredo - SFL: LANDFILL

Login Number : S70326

Location: LF-SB47(5.0)QA

**Analysis: HERBICIDE EPA 8150**

Matrix:(soil/water) SOIL

Sample Weight: 5.0 g

Extract Volume: 1.0 mL

Lab Sample I.D.: 24346-001

Date Sampled: 07/11/97

Date Received: 07/16/97

Date Extracted: 07/21/97

Date Analyzed: 07/29/97

**PreparationBatch:** HS0721

**Instrument Batch:** PCB0729

Percent Solid: 86 %

Dilution Factor: 1

Lab Notebook No: 689, p.13

SAMPLE RESULTS

| | CAS NO. | COMPOUND | REPORTING LIMITS (µg/kg) | RESULTS (µg/kg) | FLAG |
|---|---|---|---|---|---|
| 1. | 94-75-7 | 2,4-D | 46.5 | U | |
| 2. | 94-82-6 | 2,4-DB | 46.5 | U | |
| 3. | 93-76-5 | 2,4,5-T | 46.5 | U | |
| 4. | 1918-00-9 | Dicamba | 46.5 | U | |
| 5. | 93-72-1 | 2,4,5-TP (Silvex) | 46.5 | U | |

| | SURROGATE STANDARD | RECOVERY (%) | ACCEPTABLE | SPIKE (µg/kg) |
|---|---|---|---|---|
| 6. | Triclopyr | 80 | 50-160 | 93.0 |

U: Below Reporting Limit

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-9
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-10 LF-SB47(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.8 mg/Kg | 8050 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.37 mg/Kg | 5.00 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.18 mg/Kg | 7.34 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.36 mg/Kg | 0.74 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-9 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59.2 mg/Kg | 1810 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.18 mg/Kg | 3.91 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.59 mg/Kg | 11.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.18 mg/Kg | 4.91 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.8 mg/Kg | 26100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.142 mg/Kg | < 0.142 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |

REPORT NUMBER : D97-8658-9 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 118 | mg/Kg | 1760 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Magnesium | /1 | 118 | mg/Kg | 2780 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Manganese | /1 | 1.18 | mg/Kg | 17.2 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Sodium | /1 | 118 | mg/Kg | 2160 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Nickel | /1 | 1.18 | mg/Kg | 12.3 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Lead | /1 | 0.592 | mg/Kg | 8.09 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Antimony | /1 | 5.92 | mg/Kg | < 5.92 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |

REPORT NUMBER : DS7-8658-9 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.18 mg/Kg | < 1.18 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.18 mg/Kg | 5.29 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.37 mg/Kg | 82.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-9
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-10 LF-SB47(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 84.5 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 155001F | | | |

Applicable results are reported on Dry Weight basis.

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REPORT DATE : 30-JUL-1997

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ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-10 LF-SB47(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 59.2 µg/Kg | < 59.2 µg/Kg |
| 2,4-DB | 59.2 µg/Kg | < 59.2 µg/Kg |
| 2,4,5-T | 5.92 µg/Kg | < 5.92 µg/Kg |
| 2,4,5-TP(Silvex) | 5.92 µg/Kg | < 5.92 µg/Kg |
| Dalapon | 237 µg/Kg | < 237 µg/Kg |
| Dicamba | 5.92 µg/Kg | < 5.92 µg/Kg |
| Dichlorprop | 59.2 µg/Kg | < 59.2 µg/Kg |
| Dinoseb | 23.7 µg/Kg | < 23.7 µg/Kg |
| MCPA | 23700 µg/Kg | < 23700 µg/Kg |
| MCPP | 23700 µg/Kg | < 23700 µg/Kg |

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REPORT NUMBER : D97-8658-9
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 74.5 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-9
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-10 LF-SB47(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.17 µg/Kg | < 3.17 µg/Kg |
| Alpha-BHC | 2.38 µg/Kg | < 2.38 µg/Kg |
| Beta-BHC | 4.76 µg/Kg | < 4.76 µg/Kg |
| Delta-BHC | 7.14 µg/Kg | < 7.14 µg/Kg |
| Gamma-BHC(Lindane) | 3.17 µg/Kg | < 3.17 µg/Kg |
| Chlordane | 11.1 µg/Kg | < 11.1 µg/Kg |
| 4,4'-DDD | 8.72 µg/Kg | < 8.72 µg/Kg |
| 4,4'-DDE | 3.17 µg/Kg | < 3.17 µg/Kg |
| 4,4'-DDT | 9.51 µg/Kg | < 9.51 µg/Kg |
| Dieldrin | 1.59 µg/Kg | < 1.59 µg/Kg |
| Endosulfan I | 11.1 µg/Kg | < 11.1 µg/Kg |
| Endosulfan II | 3.17 µg/Kg | < 3.17 µg/Kg |
| Endosulfan Sulfate | 52.3 µg/Kg | < 52.3 µg/Kg |
| Endrin | 4.76 µg/Kg | < 4.76 µg/Kg |

REPORT NUMBER : D97-8658-9
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.2 µg/Kg | < 18.2 µg/Kg |
| Heptachlor | 2.38 µg/Kg | < 2.38 µg/Kg |
| Heptachlor Epoxide | 65.8 µg/Kg | < 65.8 µg/Kg |
| Methoxychlor | 140 µg/Kg | < 140 µg/Kg |
| Toxaphene | 190 µg/Kg | < 190 µg/Kg |
| Aroclor-1016 | 51.5 µg/Kg | < 51.5 µg/Kg |
| Aroclor-1221 | 51.5 µg/Kg | < 51.5 µg/Kg |
| Aroclor-1232 | 51.5 µg/Kg | < 51.5 µg/Kg |
| Aroclor-1242 | 51.5 µg/Kg | < 51.5 µg/Kg |
| Aroclor-1248 | 51.5 µg/Kg | < 51.5 µg/Kg |
| Aroclor-1254 | 51.5 µg/Kg | < 51.5 µg/Kg |
| Aroclor-1260 | 51.5 µg/Kg | < 51.5 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 83.1 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 77.7 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-9
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-10 LF-SB47(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.7 µg/Kg | < 23.7 µg/Kg |
| Acrylonitrile | 5.92 µg/Kg | < 5.92 µg/Kg |
| Benzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| Bromobenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| Bromochloromethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| Bromodichloromethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| Bromoform | 5.92 µg/Kg | < 5.92 µg/Kg |
| Carbon disulfide | 5.92 µg/Kg | < 5.92 µg/Kg |
| Carbon tetrachloride | 5.92 µg/Kg | < 5.92 µg/Kg |
| Chlorobenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| Chloroethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| Chloroform | 5.92 µg/Kg | < 5.92 µg/Kg |
| 2-Chlorotoluene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 4-Chlorotoluene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 2-Chloroethylvinyl ether | 11.8 µg/Kg | < 11.8 µg/Kg |
| Dibromochloromethane | 5.92 µg/Kg | < 5.92 µg/Kg |

REPORT NUMBER : D97-8658-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.6 µg/Kg | < 29.6 µg/Kg |
| 1,2-Dibromoethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,2-Dichlorobenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,3-Dichlorobenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,4-Dichlorobenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| trans-1,4-Dichloro-2-butene | 118 µg/Kg | < 118 µg/Kg |
| 1,1-Dichloroethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,2-Dichloroethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,1-Dichloroethene | 5.92 µg/Kg | < 5.92 µg/Kg |
| cis-1,2-Dichloroethene | 5.92 µg/Kg | < 5.92 µg/Kg |
| trans-1,2-Dichloroethene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,2-Dichloropropane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 2,2-Dichloropropane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,1-Dichloropropene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,3-Dichloropropane | 5.92 µg/Kg | < 5.92 µg/Kg |
| cis-1,3-Dichloropropene | 5.92 µg/Kg | < 5.92 µg/Kg |
| trans-1,3-Dichloropropene | 5.92 µg/Kg | < 5.92 µg/Kg |
| Ethylbenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 2-Hexanone | 59.2 µg/Kg | < 59.2 µg/Kg |
| Bromomethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| Chloromethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| Dibromomethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 2-Butanone | 118 µg/Kg | < 118 µg/Kg |
| Iodomethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| Methylene chloride | 5.92 µg/Kg | < 5.92 µg/Kg |
| 4-Methyl-2-pentanone | 118 µg/Kg | < 118 µg/Kg |

REPORT NUMBER : D97-8658-9
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| Tetrachloroethene | 5.92 µg/Kg | < 5.92 µg/Kg |
| Toluene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,1,1-Trichloroethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,1,2-Trichloroethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| Trichloroethene | 5.92 µg/Kg | < 5.92 µg/Kg |
| Trichlorofluoromethane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,2,3-Trichloropropane | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.92 µg/Kg | < 5.92 µg/Kg |
| Vinyl acetate | 59.2 µg/Kg | < 59.2 µg/Kg |
| Vinyl chloride | 2.37 µg/Kg | < 2.37 µg/Kg |
| m,p-Xylene | 5.92 µg/Kg | < 5.92 µg/Kg |
| o-Xylene | 5.92 µg/Kg | < 5.92 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 97.4 % |
| Toluene-d8 (SS) | | 104 % |
| Bromofluorobenzene (SS) | | 95.0 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-9
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-10 LF-SB47(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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SAMPLE MATRIX : Soil
ID MARKS : S70326-10 LF-SB47(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Acenaphthylene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Anthracene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Benzo(a)anthracene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Benzo(b)fluoranthene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Benzo(k)fluoranthene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Benzo(g,h,i)perylene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Benzo(a)pyrene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Benzyl alcohol | 0.769 mg/Kg | < 0.769 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.391 mg/Kg | < 0.391 mg/Kg |
| Bis(2-chloroethyl)ether | 0.391 mg/Kg | < 0.391 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.391 mg/Kg | < 0.391 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.391 mg/Kg | < 0.391 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.391 mg/Kg | < 0.391 mg/Kg |

REPORT NUMBER : D97-8658-9
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.391 mg/Kg | < 0.391 mg/Kg |
| Carbazole | 0.391 mg/Kg | < 0.391 mg/Kg |
| 4-Chloroaniline | 0.391 mg/Kg | < 0.391 mg/Kg |
| 2-Chloronaphthalene | 0.391 mg/Kg | < 0.391 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.391 mg/Kg | < 0.391 mg/Kg |
| Chrysene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Dibenz(a,h)anthracene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Dibenzofuran | 0.391 mg/Kg | < 0.391 mg/Kg |
| Di-n-butylphthalate | 0.391 mg/Kg | < 0.391 mg/Kg |
| 1,2-Dichlorobenzene | 0.391 mg/Kg | < 0.391 mg/Kg |
| 1,3-Dichlorobenzene | 0.391 mg/Kg | < 0.391 mg/Kg |
| 1,4-Dichlorobenzene | 0.391 mg/Kg | < 0.391 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.391 mg/Kg | < 0.391 mg/Kg |
| Diethyl phthalate | 0.391 mg/Kg | < 0.391 mg/Kg |
| Dimethyl phthalate | 0.391 mg/Kg | < 0.391 mg/Kg |
| 2,4-Dinitrotoluene | 0.391 mg/Kg | < 0.391 mg/Kg |
| 2,6-Dinitrotoluene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Di-n-octylphthalate | 0.391 mg/Kg | < 0.391 mg/Kg |
| Fluoranthene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Fluorene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Hexachlorobenzene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Hexachlorobutadiene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Hexachlorocyclopentadiene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Hexachloroethane | 0.391 mg/Kg | < 0.391 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Isophorone | 0.391 mg/Kg | < 0.391 mg/Kg |

REPORT NUMBER : D97-8658-9
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Naphthalene | 0.391 mg/Kg | < 0.391 mg/Kg |
| 2-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 3-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| 4-Nitroaniline | 1.95 mg/Kg | < 1.95 mg/Kg |
| Nitrobenzene | 0.391 mg/Kg | < 0.391 mg/Kg |
| N-Nitrosodiphenylamine | 0.391 mg/Kg | < 0.391 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.391 mg/Kg | < 0.391 mg/Kg |
| Phenanthrene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Pyrene | 0.391 mg/Kg | < 0.391 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.391 mg/Kg | < 0.391 mg/Kg |
| Benzoic acid | 0.947 mg/Kg | < 0.947 mg/Kg |
| 4-Chloro-3-methylphenol | 0.769 mg/Kg | < 0.769 mg/Kg |
| 2-Chlorophenol | 0.391 mg/Kg | < 0.391 mg/Kg |
| 2,4-Dichlorophenol | 0.391 mg/Kg | < 0.391 mg/Kg |
| 2,4-Dimethylphenol | 0.391 mg/Kg | < 0.391 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4-Dinitrophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2-Methylphenol | 0.391 mg/Kg | < 0.391 mg/Kg |
| 4-Methylphenol | 0.391 mg/Kg | < 0.391 mg/Kg |
| 2-Nitrophenol | 0.391 mg/Kg | < 0.391 mg/Kg |
| 4-Nitrophenol | 0.947 mg/Kg | < 0.947 mg/Kg |
| Pentachlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| Phenol | 0.391 mg/Kg | < 0.391 mg/Kg |
| 2,4,5-Trichlorophenol | 1.95 mg/Kg | < 1.95 mg/Kg |
| 2,4,6-Trichlorophenol | 0.391 mg/Kg | < 0.391 mg/Kg |



04795

REPORT NUMBER : D97-8658-9 PAGE 4
ANALYSIS METHOD : EPA 8270B /1

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 70.1 % |
| 2-Fluorobiphenyl (SS) | | 71.3 % |
| Terphenyl-d14 (SS) | | 74.9 % |
| Phenol-d6 (SS) | | 79.0 % |
| 2-Fluorophenol (SS) | | 70.9 % |
| 2,4,6-Tribromophenol (SS) | | 77.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-9
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-10 LF-SB47(7.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-11 LF-SB46(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 12.3 mg/Kg | 8990 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.46 mg/Kg | 4.50 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.23 mg/Kg | 52.8 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.37 mg/Kg | 0.53 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-10 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 61.4 mg/Kg | 35200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.61 mg/Kg | < 0.61 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.23 mg/Kg | 8.10 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.61 mg/Kg | 9.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.23 mg/Kg | 4.45 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 12.3 mg/Kg | 18800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.147 mg/Kg | < 0.147 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |

REPORT NUMBER : D97-8658-10 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 123 mg/Kg | 1860 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 123 mg/Kg | 2500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.23 mg/Kg | 107 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 123 mg/Kg | 1840 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.23 mg/Kg | 9.90 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.614 mg/Kg | 10.9 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 6.14 mg/Kg | < 6.14 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-10 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.23 mg/Kg | < 1.23 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.74 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.23 mg/Kg | 8.41 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.46 mg/Kg | 49.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.



04802

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-11 LF-SB46(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

MISCELLANEOUS ANALYSES

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Total Solids | /1 | 0.01 % | 81.4 % |

Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB
QC Batch No : 155001F

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-11 LF-SB46(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 61.4 µg/Kg | < 61.4 µg/Kg |
| 2,4-DB | 61.4 µg/Kg | < 61.4 µg/Kg |
| 2,4,5-T | 6.14 µg/Kg | < 6.14 µg/Kg |
| 2,4,5-TP(Silvex) | 6.14 µg/Kg | < 6.14 µg/Kg |
| Dalapon | 246 µg/Kg | < 246 µg/Kg |
| Dicamba | 6.14 µg/Kg | < 6.14 µg/Kg |
| Dichlorprop | 61.4 µg/Kg | < 61.4 µg/Kg |
| Dinoseb | 24.6 µg/Kg | < 24.6 µg/Kg |
| MCPA | 24600 µg/Kg | < 24600 µg/Kg |
| MCPP | 24600 µg/Kg | < 24600 µg/Kg |

REPORT NUMBER : D97-8658-10
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 81.7 % |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-11 LF-SB46(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 19-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.29 µg/Kg | < 3.29 µg/Kg |
| Alpha-BHC | 2.47 µg/Kg | < 2.47 µg/Kg |
| Beta-BHC | 4.94 µg/Kg | < 4.94 µg/Kg |
| Delta-BHC | 7.41 µg/Kg | < 7.41 µg/Kg |
| Gamma-BHC(Lindane) | 3.29 µg/Kg | < 3.29 µg/Kg |
| Chlordane | 11.5 µg/Kg | < 11.5 µg/Kg |
| 4,4'-DDD | 9.05 µg/Kg | < 9.05 µg/Kg |
| 4,4'-DDE | 3.29 µg/Kg | < 3.29 µg/Kg |
| 4,4'-DDT | 9.88 µg/Kg | < 9.88 µg/Kg |
| Dieldrin | 1.65 µg/Kg | < 1.65 µg/Kg |
| Endosulfan I | 11.5 µg/Kg | < 11.5 µg/Kg |
| Endosulfan II | 3.29 µg/Kg | < 3.29 µg/Kg |
| Endosulfan Sulfate | 54.3 µg/Kg | < 54.3 µg/Kg |
| Endrin | 4.94 µg/Kg | < 4.94 µg/Kg |

REPORT NUMBER : D97-8658-10
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.9 µg/Kg | < 18.9 µg/Kg |
| Heptachlor | 2.47 µg/Kg | < 2.47 µg/Kg |
| Heptachlor Epoxide | 68.3 µg/Kg | < 68.3 µg/Kg |
| Methoxychlor | 145 µg/Kg | < 145 µg/Kg |
| Toxaphene | 198 µg/Kg | < 198 µg/Kg |
| Aroclor-1016 | 53.5 µg/Kg | < 53.5 µg/Kg |
| Aroclor-1221 | 53.5 µg/Kg | < 53.5 µg/Kg |
| Aroclor-1232 | 53.5 µg/Kg | < 53.5 µg/Kg |
| Aroclor-1242 | 53.5 µg/Kg | < 53.5 µg/Kg |
| Aroclor-1248 | 53.5 µg/Kg | < 53.5 µg/Kg |
| Aroclor-1254 | 53.5 µg/Kg | < 53.5 µg/Kg |
| Aroclor-1260 | 53.5 µg/Kg | < 53.5 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 81.5 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 80.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-11 LF-SB46(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 24.6 µg/Kg | < 24.6 µg/Kg |
| Acrylonitrile | 6.14 µg/Kg | < 6.14 µg/Kg |
| Benzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| Bromobenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| Bromochloromethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| Bromodichloromethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| Bromoform | 6.14 µg/Kg | < 6.14 µg/Kg |
| Carbon disulfide | 6.14 µg/Kg | < 6.14 µg/Kg |
| Carbon tetrachloride | 6.14 µg/Kg | < 6.14 µg/Kg |
| Chlorobenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| Chloroethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| Chloroform | 6.14 µg/Kg | < 6.14 µg/Kg |
| 2-Chlorotoluene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 4-Chlorotoluene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 2-Chloroethylvinyl ether | 12.3 µg/Kg | < 12.3 µg/Kg |
| Dibromochloromethane | 6.14 µg/Kg | < 6.14 µg/Kg |

REPORT NUMBER : D97-8658-10
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 30.7 µg/Kg | < 30.7 µg/Kg |
| 1,2-Dibromoethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,2-Dichlorobenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,3-Dichlorobenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,4-Dichlorobenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| trans-1,4-Dichloro-2-butene | 123 µg/Kg | < 123 µg/Kg |
| 1,1-Dichloroethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,2-Dichloroethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,1-Dichloroethene | 6.14 µg/Kg | < 6.14 µg/Kg |
| cis-1,2-Dichloroethene | 6.14 µg/Kg | < 6.14 µg/Kg |
| trans-1,2-Dichloroethene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,2-Dichloropropane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 2,2-Dichloropropane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,1-Dichloropropene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,3-Dichloropropane | 6.14 µg/Kg | < 6.14 µg/Kg |
| cis-1,3-Dichloropropene | 6.14 µg/Kg | < 6.14 µg/Kg |
| trans-1,3-Dichloropropene | 6.14 µg/Kg | < 6.14 µg/Kg |
| Ethylbenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 2-Hexanone | 61.4 µg/Kg | < 61.4 µg/Kg |
| Bromomethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| Chloromethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| Dibromomethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 2-Butanone | 123 µg/Kg | < 123 µg/Kg |
| Iodomethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| Methylene chloride | 6.14 µg/Kg | < 6.14 µg/Kg |
| 4-Methyl-2-pentanone | 123 µg/Kg | < 123 µg/Kg |

REPORT NUMBER : D97-8658-10
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| Tetrachloroethene | 6.14 µg/Kg | < 6.14 µg/Kg |
| Toluene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,1,1-Trichloroethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,1,2-Trichloroethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| Trichloroethene | 6.14 µg/Kg | < 6.14 µg/Kg |
| Trichlorofluoromethane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,2,3-Trichloropropane | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.14 µg/Kg | < 6.14 µg/Kg |
| Vinyl acetate | 61.4 µg/Kg | < 61.4 µg/Kg |
| Vinyl chloride | 2.46 µg/Kg | < 2.46 µg/Kg |
| m,p-Xylene | 6.14 µg/Kg | < 6.14 µg/Kg |
| o-Xylene | 6.14 µg/Kg | < 6.14 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 96.0 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 93.0 % |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-11 LF-SB46(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-11 LF-SB46(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Acenaphthylene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Anthracene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(a)anthracene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(b)fluoranthene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(k)fluoranthene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(g,h,i)perylene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzo(a)pyrene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzyl alcohol | 0.794 mg/Kg | < 0.794 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.403 mg/Kg | < 0.403 mg/Kg |
| Bis(2-chloroethyl)ether | 0.403 mg/Kg | < 0.403 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.403 mg/Kg | < 0.403 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.403 mg/Kg | < 0.403 mg/Kg |

REPORT NUMBER : D97-8658-10
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| Carbazole | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Chloroaniline | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2-Chloronaphthalene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.403 mg/Kg | < 0.403 mg/Kg |
| Chrysene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Dibenz(a,h)anthracene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Dibenzofuran | 0.403 mg/Kg | < 0.403 mg/Kg |
| Di-n-butylphthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| 1,2-Dichlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 1,3-Dichlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 1,4-Dichlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.403 mg/Kg | < 0.403 mg/Kg |
| Diethyl phthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| Dimethyl phthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,4-Dinitrotoluene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,6-Dinitrotoluene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Di-n-octylphthalate | 0.403 mg/Kg | < 0.403 mg/Kg |
| Fluoranthene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Fluorene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Hexachlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Hexachlorobutadiene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Hexachlorocyclopentadiene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Hexachloroethane | 0.403 mg/Kg | < 0.403 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Isophorone | 0.403 mg/Kg | < 0.403 mg/Kg |

REPORT NUMBER : D97-8658-10
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Naphthalene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2-Nitroaniline | 2.01 mg/Kg | < 2.01 mg/Kg |
| 3-Nitroaniline | 2.01 mg/Kg | < 2.01 mg/Kg |
| 4-Nitroaniline | 2.01 mg/Kg | < 2.01 mg/Kg |
| Nitrobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| N-Nitrosodiphenylamine | 0.403 mg/Kg | < 0.403 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.403 mg/Kg | < 0.403 mg/Kg |
| Phenanthrene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Pyrene | 0.403 mg/Kg | < 0.403 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.403 mg/Kg | < 0.403 mg/Kg |
| Benzoic acid | 0.977 mg/Kg | < 0.977 mg/Kg |
| 4-Chloro-3-methylphenol | 0.794 mg/Kg | < 0.794 mg/Kg |
| 2-Chlorophenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,4-Dichlorophenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,4-Dimethylphenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.01 mg/Kg | < 2.01 mg/Kg |
| 2,4-Dinitrophenol | 2.01 mg/Kg | < 2.01 mg/Kg |
| 2-Methylphenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Methylphenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2-Nitrophenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 4-Nitrophenol | 0.977 mg/Kg | < 0.977 mg/Kg |
| Pentachlorophenol | 2.01 mg/Kg | < 2.01 mg/Kg |
| Phenol | 0.403 mg/Kg | < 0.403 mg/Kg |
| 2,4,5-Trichlorophenol | 2.01 mg/Kg | < 2.01 mg/Kg |
| 2,4,6-Trichlorophenol | 0.403 mg/Kg | < 0.403 mg/Kg |



64814

REPORT NUMBER : D97-8658-10
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 65.7 % |
| 2-Fluorobiphenyl (SS) | | 57.7 % |
| Terphenyl-d14 (SS) | | 62.7 % |
| Phenol-d6 (SS) | | 76.4 % |
| 2-Fluorophenol (SS) | | 69.2 % |
| 2,4,6-Tribromophenol (SS) | | 69.5 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-10
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-11 LF-SB46(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.41 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-12 LF-SB46(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.64 mg/Kg | < 0.64 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 12.7 mg/Kg | 8250 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.54 mg/Kg | 4.69 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.27 mg/Kg | 70.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.38 mg/Kg | 0.45 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-11 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 63.5 mg/Kg | 39700 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.64 mg/Kg | 1.39 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.27 mg/Kg | 6.47 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.64 mg/Kg | 12.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.27 mg/Kg | 18.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 12.7 mg/Kg | 22200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.152 mg/Kg | < 0.152 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |



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REPORT NUMBER : D97-8658-11 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 127 mg/Kg | 1750 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 127 mg/Kg | 2080 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.27 mg/Kg | 160 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 127 mg/Kg | 1120 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.27 mg/Kg | 19.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.635 mg/Kg | 57.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 6.35 mg/Kg | < 6.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-11 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.27 mg/Kg | < 1.27 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 11.6 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.3 mg/Kg | < 1.3 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.27 mg/Kg | 4.79 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.54 mg/Kg | 138 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-12 LF-SB46(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 78.7 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 155001F | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-12 LF-SB46(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 63.5 µg/Kg | < 63.5 µg/Kg |
| 2,4-DB | 63.5 µg/Kg | < 63.5 µg/Kg |
| 2,4,5-T | 6.35 µg/Kg | < 6.35 µg/Kg |
| 2,4,5-TP(Silvex) | 6.35 µg/Kg | < 6.35 µg/Kg |
| Dalapon | 254 µg/Kg | < 254 µg/Kg |
| Dicamba | 6.35 µg/Kg | < 6.35 µg/Kg |
| Dichlorprop | 63.5 µg/Kg | < 63.5 µg/Kg |
| Dinoseb | 25.4 µg/Kg | < 25.4 µg/Kg |
| MCPA | 25400 µg/Kg | < 25400 µg/Kg |
| MCPP | 25400 µg/Kg | < 25400 µg/Kg |

REPORT NUMBER : D97-8658-11
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 76.9 % |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-12 LF-SB46(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 19-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.41 µg/Kg | < 3.41 µg/Kg |
| Alpha-BHC | 2.55 µg/Kg | < 2.55 µg/Kg |
| Beta-BHC | 5.11 µg/Kg | < 5.11 µg/Kg |
| Delta-BHC | 7.66 µg/Kg | < 7.66 µg/Kg |
| Gamma-BHC(Lindane) | 3.41 µg/Kg | < 3.41 µg/Kg |
| Chlordane | 11.9 µg/Kg | < 11.9 µg/Kg |
| 4,4'-DDD | 9.36 µg/Kg | < 9.36 µg/Kg |
| 4,4'-DDE | 3.41 µg/Kg | < 3.41 µg/Kg |
| 4,4'-DDT | 10.2 µg/Kg | < 10.2 µg/Kg |
| Dieldrin | 1.70 µg/Kg | < 1.70 µg/Kg |
| Endosulfan I | 11.9 µg/Kg | < 11.9 µg/Kg |
| Endosulfan II | 3.41 µg/Kg | < 3.41 µg/Kg |
| Endosulfan Sulfate | 56.2 µg/Kg | < 56.2 µg/Kg |
| Endrin | 5.11 µg/Kg | < 5.11 µg/Kg |

REPORT NUMBER : D97-8658-11
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 19.6 µg/Kg | < 19.6 µg/Kg |
| Heptachlor | 2.55 µg/Kg | < 2.55 µg/Kg |
| Heptachlor Epoxide | 70.7 µg/Kg | < 70.7 µg/Kg |
| Methoxychlor | 150 µg/Kg | < 150 µg/Kg |
| Toxaphene | 204 µg/Kg | < 204 µg/Kg |
| Aroclor-1016 | 55.3 µg/Kg | < 55.3 µg/Kg |
| Aroclor-1221 | 55.3 µg/Kg | < 55.3 µg/Kg |
| Aroclor-1232 | 55.3 µg/Kg | < 55.3 µg/Kg |
| Aroclor-1242 | 55.3 µg/Kg | < 55.3 µg/Kg |
| Aroclor-1248 | 55.3 µg/Kg | < 55.3 µg/Kg |
| Aroclor-1254 | 55.3 µg/Kg | < 55.3 µg/Kg |
| Aroclor-1260 | 55.3 µg/Kg | < 55.3 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 81.8 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 86.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-12 LF-SB46(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 25.4 µg/Kg | < 25.4 µg/Kg |
| Acrylonitrile | 6.35 µg/Kg | < 6.35 µg/Kg |
| Benzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| Bromobenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| Bromochloromethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| Bromodichloromethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| Bromoform | 6.35 µg/Kg | < 6.35 µg/Kg |
| Carbon disulfide | 6.35 µg/Kg | < 6.35 µg/Kg |
| Carbon tetrachloride | 6.35 µg/Kg | < 6.35 µg/Kg |
| Chlorobenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| Chloroethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| Chloroform | 6.35 µg/Kg | < 6.35 µg/Kg |
| 2-Chlorotoluene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 4-Chlorotoluene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 2-Chloroethylvinyl ether | 12.7 µg/Kg | < 12.7 µg/Kg |
| Dibromochloromethane | 6.35 µg/Kg | < 6.35 µg/Kg |

REPORT NUMBER : D97-8658-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 31.8 µg/Kg | < 31.8 µg/Kg |
| 1,2-Dibromoethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,2-Dichlorobenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,3-Dichlorobenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,4-Dichlorobenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| trans-1,4-Dichloro-2-butene | 127 µg/Kg | < 127 µg/Kg |
| 1,1-Dichloroethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,2-Dichloroethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,1-Dichloroethene | 6.35 µg/Kg | < 6.35 µg/Kg |
| cis-1,2-Dichloroethene | 6.35 µg/Kg | < 6.35 µg/Kg |
| trans-1,2-Dichloroethene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,2-Dichloropropane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 2,2-Dichloropropane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,1-Dichloropropene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,3-Dichloropropane | 6.35 µg/Kg | < 6.35 µg/Kg |
| cis-1,3-Dichloropropene | 6.35 µg/Kg | < 6.35 µg/Kg |
| trans-1,3-Dichloropropene | 6.35 µg/Kg | < 6.35 µg/Kg |
| Ethylbenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 2-Hexanone | 63.5 µg/Kg | < 63.5 µg/Kg |
| Bromomethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| Chloromethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| Dibromomethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 2-Butanone | 127 µg/Kg | < 127 µg/Kg |
| Iodomethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| Methylene chloride | 6.35 µg/Kg | < 6.35 µg/Kg |
| 4-Methyl-2-pentanone | 127 µg/Kg | < 127 µg/Kg |

REPORT NUMBER : D97-8658-11
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| Tetrachloroethene | 6.35 µg/Kg | < 6.35 µg/Kg |
| Toluene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,2,3-Trichlorobenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,2,4-Trichlorobenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,1,1-Trichloroethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,1,2-Trichloroethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| Trichloroethene | 6.35 µg/Kg | < 6.35 µg/Kg |
| Trichlorofluoromethane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,2,3-Trichloropropane | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,3,5-Trimethylbenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| 1,2,4-Trimethylbenzene | 6.35 µg/Kg | < 6.35 µg/Kg |
| Vinyl acetate | 63.5 µg/Kg | < 63.5 µg/Kg |
| Vinyl chloride | 2.54 µg/Kg | < 2.54 µg/Kg |
| m,p-Xylene | 6.35 µg/Kg | < 6.35 µg/Kg |
| o-Xylene | 6.35 µg/Kg | < 6.35 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 99.0 % |
| Toluene-d8 (SS) | | 101 % |
| Bromofluorobenzene (SS) | | 93.8 % |

Applicable results are reported on Dry Weight basis.

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04828

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-12 LF-SB46(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 13 ug/Kg |

Applicable results are reported on Dry Weight basis.

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DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-12 LF-SB46(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Acenaphthylene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Anthracene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Benzo(a)anthracene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Benzo(b)fluoranthene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Benzo(k)fluoranthene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Benzo(g,h,i)perylene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Benzo(a)pyrene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Benzyl alcohol | 0.823 mg/Kg | < 0.823 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.418 mg/Kg | < 0.418 mg/Kg |
| Bis(2-chloroethyl)ether | 0.418 mg/Kg | < 0.418 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.418 mg/Kg | < 0.418 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.418 mg/Kg | < 0.418 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.418 mg/Kg | < 0.418 mg/Kg |

REPORT NUMBER : D97-8658-11
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.418 mg/Kg | < 0.418 mg/Kg |
| Carbazole | 0.418 mg/Kg | < 0.418 mg/Kg |
| 4-Chloroaniline | 0.418 mg/Kg | < 0.418 mg/Kg |
| 2-Chloronaphthalene | 0.418 mg/Kg | < 0.418 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.418 mg/Kg | < 0.418 mg/Kg |
| Chrysene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Dibenz(a,h)anthracene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Dibenzofuran | 0.418 mg/Kg | < 0.418 mg/Kg |
| Di-n-butylphthalate | 0.418 mg/Kg | < 0.418 mg/Kg |
| 1,2-Dichlorobenzene | 0.418 mg/Kg | < 0.418 mg/Kg |
| 1,3-Dichlorobenzene | 0.418 mg/Kg | < 0.418 mg/Kg |
| 1,4-Dichlorobenzene | 0.418 mg/Kg | < 0.418 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.418 mg/Kg | < 0.418 mg/Kg |
| Diethyl phthalate | 0.418 mg/Kg | < 0.418 mg/Kg |
| Dimethyl phthalate | 0.418 mg/Kg | < 0.418 mg/Kg |
| 2,4-Dinitrotoluene | 0.418 mg/Kg | < 0.418 mg/Kg |
| 2,6-Dinitrotoluene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Di-n-octylphthalate | 0.418 mg/Kg | < 0.418 mg/Kg |
| Fluoranthene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Fluorene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Hexachlorobenzene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Hexachlorobutadiene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Hexachlorocyclopentadiene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Hexachloroethane | 0.418 mg/Kg | < 0.418 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Isophorone | 0.418 mg/Kg | < 0.418 mg/Kg |

REPORT NUMBER : D97-8658-11
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Naphthalene | 0.418 mg/Kg | < 0.418 mg/Kg |
| 2-Nitroaniline | 2.09 mg/Kg | < 2.09 mg/Kg |
| 3-Nitroaniline | 2.09 mg/Kg | < 2.09 mg/Kg |
| 4-Nitroaniline | 2.09 mg/Kg | < 2.09 mg/Kg |
| Nitrobenzene | 0.418 mg/Kg | < 0.418 mg/Kg |
| N-Nitrosodiphenylamine | 0.418 mg/Kg | < 0.418 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.418 mg/Kg | < 0.418 mg/Kg |
| Phenanthrene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Pyrene | 0.418 mg/Kg | < 0.418 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.418 mg/Kg | < 0.418 mg/Kg |
| Benzoic acid | 1.01 mg/Kg | < 1.01 mg/Kg |
| 4-Chloro-3-methylphenol | 0.823 mg/Kg | < 0.823 mg/Kg |
| 2-Chlorophenol | 0.418 mg/Kg | < 0.418 mg/Kg |
| 2,4-Dichlorophenol | 0.418 mg/Kg | < 0.418 mg/Kg |
| 2,4-Dimethylphenol | 0.418 mg/Kg | < 0.418 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 2.09 mg/Kg | < 2.09 mg/Kg |
| 2,4-Dinitrophenol | 2.09 mg/Kg | < 2.09 mg/Kg |
| 2-Methylphenol | 0.418 mg/Kg | < 0.418 mg/Kg |
| 4-Methylphenol | 0.418 mg/Kg | < 0.418 mg/Kg |
| 2-Nitrophenol | 0.418 mg/Kg | < 0.418 mg/Kg |
| 4-Nitrophenol | 1.01 mg/Kg | < 1.01 mg/Kg |
| Pentachlorophenol | 2.09 mg/Kg | < 2.09 mg/Kg |
| Phenol | 0.418 mg/Kg | < 0.418 mg/Kg |
| 2,4,5-Trichlorophenol | 2.09 mg/Kg | < 2.09 mg/Kg |
| 2,4,6-Trichlorophenol | 0.418 mg/Kg | < 0.418 mg/Kg |

REPORT NUMBER : D97-8658-11
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 31.6 % |
| 2-Fluorobiphenyl (SS) | | 31.2 % |
| Terphenyl-d14 (SS) | | 32.4 % |
| Phenol-d6 (SS) | | 41.3 % |
| 2-Fluorophenol (SS) | | 37.4 % |
| 2,4,6-Tribromophenol (SS) | | 39.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-11
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-12 LF-SB46(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.42 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-13 LF-SB39(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.9 mg/Kg | 5130 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 0.950 mg/Kg | 3.58 mg/Kg |
| Dilution Factor : 2<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.19 mg/Kg | 281 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.36 mg/Kg | 0.43 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-12 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 59.4 mg/Kg | 32200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.19 mg/Kg | 5.65 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.59 mg/Kg | 7.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.19 mg/Kg | 1.26 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.9 mg/Kg | 13500 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.143 mg/Kg | < 0.143 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |



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1089 East Collins Boulevard Richardson, TX 75081
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REPORT NUMBER : D97-8658-12 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 119 mg/Kg | 1820 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 119 mg/kg | 1480 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.19 mg/Kg | 64.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 119 mg/Kg | 166 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.19 mg/Kg | 6.52 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.594 mg/Kg | 4.77 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 5.94 mg/Kg | < 5.94 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-12 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.19 mg/Kg | < 1.19 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.35 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.19 mg/Kg | 4.60 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.38 mg/Kg | 29.5 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-13 LF-SB39(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 84.2 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 155001F | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-13 LF-SB39(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 25-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2,4-D | 59.4 | µg/Kg | < | 59.4 | µg/Kg |
| 2,4-DB | 59.4 | µg/Kg | < | 59.4 | µg/Kg |
| 2,4,5-T | 5.94 | µg/Kg | < | 5.94 | µg/Kg |
| 2,4,5-TP(Silvex) | 5.94 | µg/Kg | < | 5.94 | µg/Kg |
| Dalapon | 238 | µg/Kg | < | 238 | µg/Kg |
| Dicamba | 5.94 | µg/Kg | < | 5.94 | µg/Kg |
| Dichlorprop | 59.4 | µg/Kg | < | 59.4 | µg/Kg |
| Dinoseb | 23.8 | µg/Kg | < | 23.8 | µg/Kg |
| MCPA | 23800 | µg/Kg | < | 23800 | µg/Kg |
| MCPP | 23800 | µg/Kg | < | 23800 | µg/Kg |

REPORT NUMBER : D97-8658-12
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 84.7 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-13 LF-SB39(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 19-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.18 µg/Kg | < 3.18 µg/Kg |
| Alpha-BHC | 2.39 µg/Kg | < 2.39 µg/Kg |
| Beta-BHC | 4.77 µg/Kg | < 4.77 µg/Kg |
| Delta-BHC | 7.16 µg/Kg | < 7.16 µg/Kg |
| Gamma-BHC(Lindane) | 3.18 µg/Kg | < 3.18 µg/Kg |
| Chlordane | 11.1 µg/Kg | < 11.1 µg/Kg |
| 4,4'-DDD | 8.75 µg/Kg | < 8.75 µg/Kg |
| 4,4'-DDE | 3.18 µg/Kg | < 3.18 µg/Kg |
| 4,4'-DDT | 9.55 µg/Kg | < 9.55 µg/Kg |
| Dieldrin | 1.59 µg/Kg | < 1.59 µg/Kg |
| Endosulfan I | 11.1 µg/Kg | < 11.1 µg/Kg |
| Endosulfan II | 3.18 µg/Kg | < 3.18 µg/Kg |
| Endosulfan Sulfate | 52.5 µg/Kg | < 52.5 µg/Kg |
| Endrin | 4.77 µg/Kg | < 4.77 µg/Kg |



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REPORT NUMBER : D97-8658-12
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.3 µg/Kg | < 18.3 µg/Kg |
| Heptachlor | 2.39 µg/Kg | < 2.39 µg/Kg |
| Heptachlor Epoxide | 66.0 µg/Kg | < 66.0 µg/Kg |
| Methoxychlor | 140 µg/Kg | < 140 µg/Kg |
| Toxaphene | 191 µg/Kg | < 191 µg/Kg |
| Aroclor-1016 | 51.7 µg/Kg | < 51.7 µg/Kg |
| Aroclor-1221 | 51.7 µg/Kg | < 51.7 µg/Kg |
| Aroclor-1232 | 51.7 µg/Kg | < 51.7 µg/Kg |
| Aroclor-1242 | 51.7 µg/Kg | < 51.7 µg/Kg |
| Aroclor-1248 | 51.7 µg/Kg | < 51.7 µg/Kg |
| Aroclor-1254 | 51.7 µg/Kg | < 51.7 µg/Kg |
| Aroclor-1260 | 51.7 µg/Kg | < 51.7 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 96.6 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 86.6 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-13 LF-SB39(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.8 µg/Kg | < 23.8 µg/Kg |
| Acrylonitrile | 5.94 µg/Kg | < 5.94 µg/Kg |
| Benzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromochloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromodichloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Bromoform | 5.94 µg/Kg | < 5.94 µg/Kg |
| Carbon disulfide | 5.94 µg/Kg | < 5.94 µg/Kg |
| Carbon tetrachloride | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloroform | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Chlorotoluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 4-Chlorotoluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Chloroethylvinyl ether | 11.9 µg/Kg | < 11.9 µg/Kg |
| Dibromochloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |

REPORT NUMBER : D97-8658-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.7 µg/Kg | < 29.7 µg/Kg |
| 1,2-Dibromoethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,4-Dichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,4-Dichloro-2-butene | 119 µg/Kg | < 119 µg/Kg |
| 1,1-Dichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| cis-1,2-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,2-Dichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2,2-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3-Dichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| cis-1,3-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| trans-1,3-Dichloropropene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Ethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Hexanone | 59.4 µg/Kg | < 59.4 µg/Kg |
| Bromomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Chloromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Dibromomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 2-Butanone | 119 µg/Kg | < 119 µg/Kg |
| Iodomethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Methylene chloride | 5.94 µg/Kg | < 5.94 µg/Kg |
| 4-Methyl-2-pentanone | 119 µg/Kg | < 119 µg/Kg |

REPORT NUMBER : D97-8658-12
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Tetrachloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Toluene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,1-Trichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,1,2-Trichloroethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| Trichloroethene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Trichlorofluoromethane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,3-Trichloropropane | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.94 µg/Kg | < 5.94 µg/Kg |
| Vinyl acetate | 59.4 µg/Kg | < 59.4 µg/Kg |
| Vinyl chloride | 2.38 µg/Kg | < 2.38 µg/Kg |
| m,p-Xylene | 5.94 µg/Kg | < 5.94 µg/Kg |
| o-Xylene | 5.94 µg/Kg | < 5.94 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 100 % |
| Toluene-d8 (SS) | | 102 % |
| Bromofluorobenzene (SS) | | 94.4 % |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-13 LF-SB39(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-13 LF-SB39(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NC : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Acenaphthylene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(a)anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(b)fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(k)fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(g,h,i)perylene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzo(a)pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzyl alcohol | 0.772 mg/Kg | < 0.772 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-chloroethyl)ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-12
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Carbazole | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Chloroaniline | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Chloronaphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.392 mg/Kg | < 0.392 mg/Kg |
| Chrysene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dibenz(a,h)anthracene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dibenzofuran | 0.392 mg/Kg | < 0.392 mg/Kg |
| Di-n-butylphthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,2-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,3-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,4-Dichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.392 mg/Kg | < 0.392 mg/Kg |
| Diethyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Dimethyl phthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dinitrotoluene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,6-Dinitrotoluene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Di-n-octylphthalate | 0.392 mg/Kg | < 0.392 mg/Kg |
| Fluoranthene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Fluorene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorobutadiene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachlorocyclopentadiene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Hexachloroethane | 0.392 mg/Kg | < 0.392 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Isophorone | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-12
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Naphthalene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| 3-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| 4-Nitroaniline | 1.96 mg/Kg | < 1.96 mg/Kg |
| Nitrobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| N-Nitrosodiphenylamine | 0.392 mg/Kg | < 0.392 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.392 mg/Kg | < 0.392 mg/Kg |
| Phenanthrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Pyrene | 0.392 mg/Kg | < 0.392 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.392 mg/Kg | < 0.392 mg/Kg |
| Benzoic acid | 0.950 mg/Kg | < 0.950 mg/Kg |
| 4-Chloro-3-methylphenol | 0.772 mg/Kg | < 0.772 mg/Kg |
| 2-Chlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dichlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4-Dimethylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2,4-Dinitrophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2-Methylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Methylphenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2-Nitrophenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 4-Nitrophenol | 0.950 mg/Kg | < 0.950 mg/Kg |
| Pentachlorophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| Phenol | 0.392 mg/Kg | < 0.392 mg/Kg |
| 2,4,5-Trichlorophenol | 1.96 mg/Kg | < 1.96 mg/Kg |
| 2,4,6-Trichlorophenol | 0.392 mg/Kg | < 0.392 mg/Kg |

REPORT NUMBER : D97-8658-12
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 64.7 % |
| 2-Fluorobiphenyl (SS) | | 66.5 % |
| Terphenyl-d14 (SS) | | 68.3 % |
| Phenol-d6 (SS) | | 76.3 % |
| 2-Fluorophenol (SS) | | 66.7 % |
| 2,4,6-Tribromophenol (SS) | | 75.4 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-12
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-13 LF-SB39(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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Telephone (972) 238-5591 Fax (972) 238-5592

64852

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-13
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-14 LF-SB39(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Silver | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.7 mg/Kg | 7080 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.34 mg/Kg | 2.39 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.17 mg/Kg | 103 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.68 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

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REPORT NUMBER : D97-8658-13 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.6 mg/Kg | 2100 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.59 mg/Kg | < 0.59 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.17 mg/Kg | 3.74 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.59 mg/Kg | 10.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.17 mg/Kg | 1.90 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.7 mg/Kg | 17200 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.141 mg/Kg | < 0.141 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |

REPORT NUMBER : D97-8658-13 PAGE 3

| TOTAL METALS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | | RESULTS | |
| Potassium | /1 | 117 | mg/Kg | 1930 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Magnesium | /1 | 117 | mg/Kg | 2150 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Manganese | /1 | 1.17 | mg/Kg | 21.5 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Sodium | /1 | 117 | mg/Kg | 945 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Nickel | /1 | 1.17 | mg/Kg | 8.78 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Lead | /1 | 0.586 | mg/Kg | 6.31 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |
| Antimony | /1 | 5.86 | mg/Kg | < 5.86 | mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | | | |

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-13
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-14 LF-SB39(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 85.3 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 155001F | | | |

Applicable results are reported on Dry Weight basis.

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1089 East Collins Boulevard Richardson, TX 75081
Telephone (972) 238-5591 Fax (972) 238-5592

ITS Intertek Testing Services
Environmental Laboratories

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REPORT NUMBER : D97-8658-13
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-14 LF-SB39(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 26-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.6 µg/Kg | < 58.6 µg/Kg |
| 2,4-DB | 58.6 µg/Kg | < 58.6 µg/Kg |
| 2,4,5-T | 5.86 µg/Kg | < 5.86 µg/Kg |
| 2,4,5-TP(Silvex) | 5.86 µg/Kg | < 5.86 µg/Kg |
| Dalapon | 234 µg/Kg | < 234 µg/Kg |
| Dicamba | 5.86 µg/Kg | < 5.86 µg/Kg |
| Dichlorprop | 58.6 µg/Kg | < 58.6 µg/Kg |
| Dinoseb | 23.4 µg/Kg | < 23.4 µg/Kg |
| MCPA | 23400 µg/Kg | < 23400 µg/Kg |
| MCPP | 23400 µg/Kg | < 23400 µg/Kg |

REPORT NUMBER : D97-8658-13
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 83.5 % |

Applicable results are reported on Dry Weight basis.

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Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-13
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-14 LF-SB39(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 19-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.14 µg/Kg | < 3.14 µg/Kg |
| Alpha-BHC | 2.36 µg/Kg | < 2.36 µg/Kg |
| Beta-BHC | 4.71 µg/Kg | < 4.71 µg/Kg |
| Delta-BHC | 7.07 µg/Kg | < 7.07 µg/Kg |
| Gamma-BHC(Lindane) | 3.14 µg/Kg | < 3.14 µg/Kg |
| Chlordane | 11.0 µg/Kg | < 11.0 µg/Kg |
| 4,4'-DDD | 8.64 µg/Kg | < 8.64 µg/Kg |
| 4,4'-DDE | 3.14 µg/Kg | < 3.14 µg/Kg |
| 4,4'-DDT | 9.43 µg/Kg | < 9.43 µg/Kg |
| Dieldrin | 1.57 µg/Kg | < 1.57 µg/Kg |
| Endosulfan I | 11.0 µg/Kg | < 11.0 µg/Kg |
| Endosulfan II | 3.14 µg/Kg | < 3.14 µg/Kg |
| Endosulfan Sulfate | 51.8 µg/Kg | < 51.8 µg/Kg |
| Endrin | 4.71 µg/Kg | < 4.71 µg/Kg |

REPORT NUMBER : D97-8658-13
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 18.1 µg/Kg | < 18.1 µg/Kg |
| Heptachlor | 2.36 µg/Kg | < 2.36 µg/Kg |
| Heptachlor Epoxide | 65.2 µg/Kg | < 65.2 µg/Kg |
| Methoxychlor | 138 µg/Kg | < 138 µg/Kg |
| Toxaphene | 189 µg/Kg | < 189 µg/Kg |
| Aroclor-1016 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1221 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1232 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1242 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1248 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1254 | 51.1 µg/Kg | < 51.1 µg/Kg |
| Aroclor-1260 | 51.1 µg/Kg | < 51.1 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 92.2 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 86.7 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

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REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-14 LF-SB39(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.4 µg/Kg | < 23.4 µg/Kg |
| Acrylonitrile | 5.86 µg/Kg | < 5.86 µg/Kg |
| Benzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| Bromobenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| Bromochloromethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| Bromodichloromethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| Bromoform | 5.86 µg/Kg | < 5.86 µg/Kg |
| Carbon disulfide | 5.86 µg/Kg | < 5.86 µg/Kg |
| Carbon tetrachloride | 5.86 µg/Kg | < 5.86 µg/Kg |
| Chlorobenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| Chloroethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| Chloroform | 5.86 µg/Kg | < 5.86 µg/Kg |
| 2-Chlorotoluene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 4-Chlorotoluene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 2-Chloroethylvinyl ether | 11.7 µg/Kg | < 11.7 µg/Kg |
| Dibromochloromethane | 5.86 µg/Kg | < 5.86 µg/Kg |

REPORT NUMBER : D97-8658-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.3 µg/Kg | < 29.3 µg/Kg |
| 1,2-Dibromoethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,2-Dichlorobenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,3-Dichlorobenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,4-Dichlorobenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| trans-1,4-Dichloro-2-butene | 117 µg/Kg | < 117 µg/Kg |
| 1,1-Dichloroethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,2-Dichloroethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,1-Dichloroethene | 5.86 µg/Kg | < 5.86 µg/Kg |
| cis-1,2-Dichloroethene | 5.86 µg/Kg | < 5.86 µg/Kg |
| trans-1,2-Dichloroethene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,2-Dichloropropane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 2,2-Dichloropropane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,1-Dichloropropene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,3-Dichloropropane | 5.86 µg/Kg | < 5.86 µg/Kg |
| cis-1,3-Dichloropropene | 5.86 µg/Kg | < 5.86 µg/Kg |
| trans-1,3-Dichloropropene | 5.86 µg/Kg | < 5.86 µg/Kg |
| Ethylbenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 2-Hexanone | 58.6 µg/Kg | < 58.6 µg/Kg |
| Bromomethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| Chloromethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| Dibromomethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 2-Butanone | 117 µg/Kg | < 117 µg/Kg |
| Iodomethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| Methylene chloride | 5.86 µg/Kg | < 5.86 µg/Kg |
| 4-Methyl-2-pentanone | 117 µg/Kg | < 117 µg/Kg |

REPORT NUMBER : D97-8658-13
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| Tetrachloroethene | 5.86 µg/Kg | < 5.86 µg/Kg |
| Toluene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,1,1-Trichloroethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,1,2-Trichloroethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| Trichloroethene | 5.86 µg/Kg | < 5.86 µg/Kg |
| Trichlorofluoromethane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,2,3-Trichloropropane | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.86 µg/Kg | < 5.86 µg/Kg |
| Vinyl acetate | 58.6 µg/Kg | < 58.6 µg/Kg |
| Vinyl chloride | 2.34 µg/Kg | < 2.34 µg/Kg |
| m,p-Xylene | 5.86 µg/Kg | < 5.86 µg/Kg |
| o-Xylene | 5.86 µg/Kg | < 5.86 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 96.4 % |
| Toluene-d8 (SS) | | 105 % |
| Bromofluorobenzene (SS) | | 93.0 % |

Applicable results are reported on Dry Weight basis.



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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-13
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-14 LF-SB39(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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SAMPLE MATRIX : Soil
ID MARKS : S70326-14 LF-SB39(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Acenaphthylene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Anthracene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Benzo(a)anthracene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Benzo(b)fluoranthene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Benzo(k)fluoranthene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Benzo(g,h,i)perylene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Benzo(a)pyrene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Benzyl alcohol | 0.740 mg/Kg | < 0.740 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.376 mg/Kg | < 0.376 mg/Kg |
| Bis(2-chloroethyl)ether | 0.376 mg/Kg | < 0.376 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.376 mg/Kg | < 0.376 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.376 mg/Kg | < 0.376 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.376 mg/Kg | < 0.376 mg/Kg |

REPORT NUMBER : D97-8658-13
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.376 mg/Kg | < 0.376 mg/Kg |
| Carbazole | 0.376 mg/Kg | < 0.376 mg/Kg |
| 4-Chloroaniline | 0.376 mg/Kg | < 0.376 mg/Kg |
| 2-Chloronaphthalene | 0.376 mg/Kg | < 0.376 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.376 mg/Kg | < 0.376 mg/Kg |
| Chrysene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Dibenz(a,h)anthracene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Dibenzofuran | 0.376 mg/Kg | < 0.376 mg/Kg |
| Di-n-butylphthalate | 0.376 mg/Kg | < 0.376 mg/Kg |
| 1,2-Dichlorobenzene | 0.376 mg/Kg | < 0.376 mg/Kg |
| 1,3-Dichlorobenzene | 0.376 mg/Kg | < 0.376 mg/Kg |
| 1,4-Dichlorobenzene | 0.376 mg/Kg | < 0.376 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.376 mg/Kg | < 0.376 mg/Kg |
| Diethyl phthalate | 0.376 mg/Kg | 1.03 mg/Kg |
| Dimethyl phthalate | 0.376 mg/Kg | < 0.376 mg/Kg |
| 2,4-Dinitrotoluene | 0.376 mg/Kg | < 0.376 mg/Kg |
| 2,6-Dinitrotoluene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Di-n-octylphthalate | 0.376 mg/Kg | < 0.376 mg/Kg |
| Fluoranthene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Fluorene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Hexachlorobenzene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Hexachlorobutadiene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Hexachlorocyclopentadiene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Hexachloroethane | 0.376 mg/Kg | < 0.376 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Isophorone | 0.376 mg/Kg | < 0.376 mg/Kg |

REPORT NUMBER : D97-8658-13
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Naphthalene | 0.376 mg/Kg | < 0.376 mg/Kg |
| 2-Nitroaniline | 1.88 mg/Kg | < 1.88 mg/Kg |
| 3-Nitroaniline | 1.88 mg/Kg | < 1.88 mg/Kg |
| 4-Nitroaniline | 1.88 mg/Kg | < 1.88 mg/Kg |
| Nitrobenzene | 0.376 mg/Kg | < 0.376 mg/Kg |
| N-Nitrosodiphenylamine | 0.376 mg/Kg | < 0.376 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.376 mg/Kg | < 0.376 mg/Kg |
| Phenanthrene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Pyrene | 0.376 mg/Kg | < 0.376 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.376 mg/Kg | < 0.376 mg/Kg |
| Benzoic acid | 0.911 mg/Kg | < 0.911 mg/Kg |
| 4-Chloro-3-methylphenol | 0.740 mg/Kg | < 0.740 mg/Kg |
| 2-Chlorophenol | 0.376 mg/Kg | < 0.376 mg/Kg |
| 2,4-Dichlorophenol | 0.376 mg/Kg | < 0.376 mg/Kg |
| 2,4-Dimethylphenol | 0.376 mg/Kg | < 0.376 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.88 mg/Kg | < 1.88 mg/Kg |
| 2,4-Dinitrophenol | 1.88 mg/Kg | < 1.88 mg/Kg |
| 2-Methylphenol | 0.376 mg/Kg | < 0.376 mg/Kg |
| 4-Methylphenol | 0.376 mg/Kg | < 0.376 mg/Kg |
| 2-Nitrophenol | 0.376 mg/Kg | < 0.376 mg/Kg |
| 4-Nitrophenol | 0.911 mg/Kg | < 0.911 mg/Kg |
| Pentachlorophenol | 1.88 mg/Kg | < 1.88 mg/Kg |
| Phenol | 0.376 mg/Kg | < 0.376 mg/Kg |
| 2,4,5-Trichlorophenol | 1.88 mg/Kg | < 1.88 mg/Kg |
| 2,4,6-Trichlorophenol | 0.376 mg/Kg | < 0.376 mg/Kg |

REPORT NUMBER : D97-8658-13
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 63.6 % |
| 2-Fluorobiphenyl (SS) | | 60.9 % |
| Terphenyl-d14 (SS) | | 65.4 % |
| Phenol-d6 (SS) | | 75.6 % |
| 2-Fluorophenol (SS) | | 66.4 % |
| 2,4,6-Tribromophenol (SS) | | 73.8 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

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REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-14 LF-SB39(5.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.39 mg/Kg |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-16 LF-SB36(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Aluminum | /1 | 11.6 mg/Kg | 8400 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Arsenic | /1 | 2.32 mg/Kg | 3.20 mg/Kg |
| Dilution Factor : 5<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by AH<br>QC Batch No : AC160-21F | | | |
| Barium | /1 | 1.16 mg/Kg | 113 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Beryllium | /1 | 0.35 mg/Kg | 0.49 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-14 PAGE 2

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 58.1 mg/Kg | 40800 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cadmium | /1 | 0.58 mg/Kg | < 0.58 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Cobalt | /1 | 1.16 mg/Kg | 4.82 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Chromium | /1 | 0.58 mg/Kg | 8.99 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Copper | /1 | 1.16 mg/Kg | 2.67 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Iron | /1 | 11.6 mg/Kg | 13600 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Mercury | /1 | 0.139 mg/Kg | < 0.139 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 7471A on 16-JUL-1997 by CEL<br>Analyzed using EPA 7471A on 17-JUL-1997 by AH<br>QC Batch No : AC160-26 | | | |

REPORT NUMBER : D97-8658-14 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 116 mg/Kg | 2090 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Magnesium | /1 | 116 mg/Kg | 2360 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Manganese | /1 | 1.16 mg/Kg | 122 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Sodium | /1 | 116 mg/Kg | < 116 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Nickel | /1 | 1.16 mg/Kg | 7.49 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Lead | /1 | 0.581 mg/Kg | 5.25 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Antimony | /1 | 5.81 mg/Kg | < 5.81 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

REPORT NUMBER : D97-8658-14



| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 1.16 mg/Kg | < 1.16 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-21F | | | |
| Tin | /1 | 1.00 mg/Kg | 1.40 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Thallium | /1 | 1.2 mg/Kg | < 1.2 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Vanadium | /1 | 1.16 mg/Kg | 12.1 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |
| Zinc | /1 | 2.32 mg/Kg | 33.4 mg/Kg |
| Dilution Factor : 1<br>Prepared using EPA 3050 on 16-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 23-JUL-1997 by GAY<br>QC Batch No : AC160-22 | | | |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-16 LF-SB36(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

| MISCELLANEOUS ANALYSES | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Total Solids | /1 | 0.01 % | 86.1 % |
| Analyzed using ASTM D2216 mod. on 17-JUL-1997 by SAB<br>QC Batch No : 155001F | | | |

Applicable results are reported on Dry Weight basis.

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ITS Intertek Testing Services
Environmental Laboratories

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REPORT DATE : 30-JUL-1997

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: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-16 LF-SB36(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : LAL
PREPARED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 28-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : AC143-2

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 58.1 µg/Kg | < 58.1 µg/Kg |
| 2,4-DB | 58.1 µg/Kg | < 58.1 µg/Kg |
| 2,4,5-T | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2,4,5-TP(Silvex) | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dalapon | 232 µg/Kg | < 232 µg/Kg |
| Dicamba | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dichlorprop | 58.1 µg/Kg | < 58.1 µg/Kg |
| Dinoseb | 23.2 µg/Kg | < 23.2 µg/Kg |
| MCPA | 23200 µg/Kg | < 23200 µg/Kg |
| MCPP | 23200 µg/Kg | < 23200 µg/Kg |

REPORT NUMBER : D97-8658-14
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 75.4 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-16 LF-SB36(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 19-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 670
QC BATCH NO : AC142-54

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 3.11 µg/Kg | < 3.11 µg/Kg |
| Alpha-BHC | 2.33 µg/Kg | < 2.33 µg/Kg |
| Beta-BHC | 4.67 µg/Kg | < 4.67 µg/Kg |
| Delta-BHC | 7.00 µg/Kg | < 7.00 µg/Kg |
| Gamma-BHC(Lindane) | 3.11 µg/Kg | < 3.11 µg/Kg |
| Chlordane | 10.9 µg/Kg | < 10.9 µg/Kg |
| 4,4'-DDD | 8.56 µg/Kg | < 8.56 µg/Kg |
| 4,4'-DDE | 3.11 µg/Kg | < 3.11 µg/Kg |
| 4,4'-DDT | 9.34 µg/Kg | < 9.34 µg/Kg |
| Dieldrin | 1.56 µg/Kg | < 1.56 µg/Kg |
| Endosulfan I | 10.9 µg/Kg | < 10.9 µg/Kg |
| Endosulfan II | 3.11 µg/Kg | < 3.11 µg/Kg |
| Endosulfan Sulfate | 51.4 µg/Kg | < 51.4 µg/Kg |
| Endrin | 4.67 µg/Kg | < 4.67 µg/Kg |

REPORT NUMBER : D97-8658-14
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 17.9 µg/Kg | < 17.9 µg/Kg |
| Heptachlor | 2.33 µg/Kg | < 2.33 µg/Kg |
| Heptachlor Epoxide | 64.6 µg/Kg | < 64.6 µg/Kg |
| Methoxychlor | 137 µg/Kg | < 137 µg/Kg |
| Toxaphene | 187 µg/Kg | < 187 µg/Kg |
| Aroclor-1016 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1221 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1232 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1242 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1248 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1254 | 50.6 µg/Kg | < 50.6 µg/Kg |
| Aroclor-1260 | 50.6 µg/Kg | < 50.6 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 82.0 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 82.9 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

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REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-16 LF-SB36(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707171001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 23.2 µg/Kg | < 23.2 µg/Kg |
| Acrylonitrile | 5.81 µg/Kg | < 5.81 µg/Kg |
| Benzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromochloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromodichloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Bromoform | 5.81 µg/Kg | < 5.81 µg/Kg |
| Carbon disulfide | 5.81 µg/Kg | < 5.81 µg/Kg |
| Carbon tetrachloride | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloroform | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Chlorotoluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 4-Chlorotoluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Chloroethylvinyl ether | 11.6 µg/Kg | < 11.6 µg/Kg |
| Dibromochloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |

REPORT NUMBER : D97-8658-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromo-3-chloropropane | 29.0 µg/Kg | < 29.0 µg/Kg |
| 1,2-Dibromoethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,4-Dichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,4-Dichloro-2-butene | 116 µg/Kg | < 116 µg/Kg |
| 1,1-Dichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| cis-1,2-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,2-Dichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2,2-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3-Dichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| cis-1,3-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| trans-1,3-Dichloropropene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Ethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Hexanone | 58.1 µg/Kg | < 58.1 µg/Kg |
| Bromomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Chloromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Dibromomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 2-Butanone | 116 µg/Kg | < 116 µg/Kg |
| Iodomethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Methylene chloride | 5.81 µg/Kg | < 5.81 µg/Kg |
| 4-Methyl-2-pentanone | 116 µg/Kg | < 116 µg/Kg |

REPORT NUMBER : D97-8658-14
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Styrene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,1,2-Tetrachloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,2,2-Tetrachloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Tetrachloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Toluene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,3-Trichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,4-Trichlorobenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,1-Trichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,1,2-Trichloroethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| Trichloroethene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Trichlorofluoromethane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,3-Trichloropropane | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,3,5-Trimethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| 1,2,4-Trimethylbenzene | 5.81 µg/Kg | < 5.81 µg/Kg |
| Vinyl acetate | 58.1 µg/Kg | < 58.1 µg/Kg |
| Vinyl chloride | 2.32 µg/Kg | < 2.32 µg/Kg |
| m,p-Xylene | 5.81 µg/Kg | < 5.81 µg/Kg |
| o-Xylene | 5.81 µg/Kg | < 5.81 µg/Kg |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Dibromofluoromethane (SS) | | 97.4 % |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 92.2 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

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SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
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ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-16 LF-SB36(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : RLR
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707171001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 12 ug/Kg |

Applicable results are reported on Dry Weight basis.

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ID MARKS : S70326-16 LF-SB36(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3550A
PREPARED BY : DJG
PREPARED ON : 15-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1.0
QC BATCH NO : AC142-64

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acenaphthene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Acenaphthylene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Anthracene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(a)anthracene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(b)fluoranthene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(k)fluoranthene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(g,h,i)perylene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzo(a)pyrene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzyl alcohol | 0.745 mg/Kg | < 0.745 mg/Kg |
| Bis(2-chloroethoxy)methane | 0.379 mg/Kg | < 0.379 mg/Kg |
| Bis(2-chloroethyl)ether | 0.379 mg/Kg | < 0.379 mg/Kg |
| Bis(2-chloroisopropyl)ether | 0.379 mg/Kg | < 0.379 mg/Kg |
| Bis(2-ethylhexyl)phthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Bromophenyl phenyl ether | 0.379 mg/Kg | < 0.379 mg/Kg |

REPORT NUMBER : D97-8658-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Butyl benzyl phthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| Carbazole | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Chloroaniline | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2-Chloronaphthalene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Chlorophenyl phenyl ether | 0.379 mg/Kg | < 0.379 mg/Kg |
| Chrysene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Dibenz(a,h)anthracene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Dibenzofuran | 0.379 mg/Kg | < 0.379 mg/Kg |
| Di-n-butylphthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| 1,2-Dichlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 1,3-Dichlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 1,4-Dichlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 3,3'-Dichlorobenzidine | 0.379 mg/Kg | < 0.379 mg/Kg |
| Diethyl phthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| Dimethyl phthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,4-Dinitrotoluene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,6-Dinitrotoluene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Di-n-octylphthalate | 0.379 mg/Kg | < 0.379 mg/Kg |
| Fluoranthene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Fluorene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Hexachlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Hexachlorobutadiene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Hexachlorocyclopentadiene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Hexachloroethane | 0.379 mg/Kg | < 0.379 mg/Kg |
| Indeno(1,2,3-cd)pyrene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Isophorone | 0.379 mg/Kg | < 0.379 mg/Kg |

REPORT NUMBER : D97-8658-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2-Methylnaphthalene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Naphthalene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| 3-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| 4-Nitroaniline | 1.89 mg/Kg | < 1.89 mg/Kg |
| Nitrobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| N-Nitrosodiphenylamine | 0.379 mg/Kg | < 0.379 mg/Kg |
| N-Nitrosodi-n-propylamine | 0.379 mg/Kg | < 0.379 mg/Kg |
| Phenanthrene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Pyrene | 0.379 mg/Kg | < 0.379 mg/Kg |
| 1,2,4-Trichlorobenzene | 0.379 mg/Kg | < 0.379 mg/Kg |
| Benzoic acid | 0.917 mg/Kg | < 0.917 mg/Kg |
| 4-Chloro-3-methylphenol | 0.745 mg/Kg | < 0.745 mg/Kg |
| 2-Chlorophenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,4-Dichlorophenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,4-Dimethylphenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4,6-Dinitro-2-methylphenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2,4-Dinitrophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2-Methylphenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Methylphenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2-Nitrophenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 4-Nitrophenol | 0.917 mg/Kg | < 0.917 mg/Kg |
| Pentachlorophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| Phenol | 0.379 mg/Kg | < 0.379 mg/Kg |
| 2,4,5-Trichlorophenol | 1.89 mg/Kg | < 1.89 mg/Kg |
| 2,4,6-Trichlorophenol | 0.379 mg/Kg | < 0.379 mg/Kg |

REPORT NUMBER : D97-8658-14
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 70.7 % |
| 2-Fluorobiphenyl (SS) | | 71.3 % |
| Terphenyl-d14 (SS) | | 79.3 % |
| Phenol-d6 (SS) | | 80.2 % |
| 2-Fluorophenol (SS) | | 68.1 % |
| 2,4,6-Tribromophenol (SS) | | 79.0 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-14
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Soil
ID MARKS : S70326-16 LF-SB36(2.0)
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : WSW
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-64

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 0.38 mg/Kg |

Applicable results are reported on Dry Weight basis.

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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70326-17 LF-Decon
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997

TOTAL METALS

| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
|---|---|---|---|
| Silver | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Aluminum | /1 | 0.100 mg/L | 4.10 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Arsenic | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 18-JUL-1997 by CEL<br>Analyzed using EPA 7060 on 22-JUL-1997 by GGD<br>QC Batch No : AC160-54F | | | |
| Barium | /1 | 0.0100 mg/L | 0.129 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Beryllium | /1 | 0.0030 mg/L | < 0.0030 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |

REPORT NUMBER : D97-8658-15



| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Calcium | /1 | 0.50 mg/L | 87.17 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Cadmium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Cobalt | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Chromium | /1 | 0.0050 mg/L | 0.0183 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Copper | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Iron | /1 | 0.100 mg/L | 17.8 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Mercury | /1 | 0.0002 mg/L | < 0.0002 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 7470 on 16-JUL-1997 by CEL<br>Analyzed using EPA 7470 on 17-JUL-1997 by AH<br>QC Batch No : AC160-30 | | | |



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REPORT NUMBER : D97-8658-15 PAGE 3

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Potassium | /1 | 1.00 mg/L | 6.38 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Magnesium | /1 | 0.500 mg/L | 25.9 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Manganese | /1 | 0.0100 mg/L | 0.329 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Sodium | /1 | 50.0 mg/L | 201 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Nickel | /1 | 0.0050 mg/L | 0.0110 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Lead | /1 | 0.0030 mg/L | 0.0071 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Antimony | /1 | 0.0500 mg/L | < 0.0500 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |

REPORT NUMBER : D97-8658-15 PAGE 4

| TOTAL METALS | | | |
|---|---|---|---|
| TEST REQUESTED | | DETECTION LIMIT | RESULTS |
| Selenium | /1 | 0.0050 mg/L | < 0.0050 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3020A on 18-JUL-1997 by CEL<br>Analyzed using EPA 7740 on 21-JUL-1997 by GGD<br>QC Batch No : AC160-54F | | | |
| Tin | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Thallium | /1 | 0.010 mg/L | < 0.010 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Vanadium | /1 | 0.0100 mg/L | < 0.0100 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |
| Zinc | /1 | 0.0200 mg/L | 0.196 mg/L |
| Dilution Factor : 1<br>Prepared using EPA 3010 on 18-JUL-1997 by CEL<br>Analyzed using EPA 6010A on 22-JUL-1997 by GAY<br>QC Batch No : AC160-53 | | | |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70326-17 LF-Decon
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 8151
PREPARED BY : JMR
PREPARED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8151 /1
ANALYZED BY : MAK
ANALYZED ON : 23-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC142-88

| CHLORINATED HERBICIDES | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 2,4-D | 1.00 µg/L | < 1.00 µg/L |
| 2,4-DB | 1.00 µg/L | < 1.00 µg/L |
| 2,4,5-T | 0.200 µg/L | < 0.200 µg/L |
| 2,4,5-TP(Silvex) | 0.200 µg/L | < 0.200 µg/L |
| Dalapon | 4.00 µg/L | < 4.00 µg/L |
| Dicamba | 0.300 µg/L | < 0.300 µg/L |
| Dichlorprop | 0.700 µg/L | < 0.700 µg/L |
| Dinoseb | 0.100 µg/L | < 0.100 µg/L |
| MCPA | 100 µg/L | < 100 µg/L |
| MCPP | 100 µg/L | < 100 µg/L |

REPORT NUMBER : D97-8658-15
ANALYSIS METHOD : EPA 8151 /1



| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| 2,4-Dichlorophenyl acetic acid (SS) | | 90.2 % |

Applicable results are reported on Dry Weight basis.



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# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70326-17 LF-Decon
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3510B
PREPARED BY : KDF
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8080 /1
ANALYZED BY : RRA
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 10
QC BATCH NO : AC142-80

| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Aldrin | 0.0400 µg/L | < 0.0400 µg/L |
| Alpha-BHC | 0.0300 µg/L | < 0.0300 µg/L |
| Beta-BHC | 0.0600 µg/L | < 0.0600 µg/L |
| Delta-BHC | 0.0900 µg/L | < 0.0900 µg/L |
| Gamma-BHC(Lindane) | 0.0400 µg/L | < 0.0400 µg/L |
| Chlordane | 0.140 µg/L | < 0.140 µg/L |
| 4,4'-DDD | 0.110 µg/L | < 0.110 µg/L |
| 4,4'-DDE | 0.0400 µg/L | < 0.0400 µg/L |
| 4,4'-DDT | 0.120 µg/L | < 0.120 µg/L |
| Dieldrin | 0.0200 µg/L | < 0.0200 µg/L |
| Endosulfan I | 0.140 µg/L | < 0.140 µg/L |
| Endosulfan II | 0.0400 µg/L | < 0.0400 µg/L |
| Endosulfan Sulfate | 0.660 µg/L | < 0.660 µg/L |
| Endrin | 0.0600 µg/L | < 0.0600 µg/L |

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REPORT NUMBER : D97-8658-15
ANALYSIS METHOD : EPA 8080 /1



| CHLORINATED PESTICIDES AND PCBS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Endrin Aldehyde | 0.230 µg/L | < 0.230 µg/L |
| Heptachlor | 0.0300 µg/L | < 0.0300 µg/L |
| Heptachlor Epoxide | 0.830 µg/L | < 0.830 µg/L |
| Methoxychlor | 1.76 µg/L | < 1.76 µg/L |
| Toxaphene | 2.40 µg/L | < 2.40 µg/L |
| Aroclor-1016 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1221 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1232 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1242 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1248 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1254 | 0.650 µg/L | < 0.650 µg/L |
| Aroclor-1260 | 0.650 µg/L | < 0.650 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Decachlorobiphenyl (SS) | | 39.0 % |
| 2,4,5,6-Tetrachloro-m-xylene (SS) | | 77.6 % |

Applicable results are reported on Dry Weight basis.

# ITS Intertek Testing Services
## Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70326-17 LF-Decon
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
ANALYZED BY : MGD
ANALYZED ON : 17-JUL-1997
DILUTION FACTOR : 1
METHOD FACTOR : 1
QC BATCH NO : 9707177001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Acetone | 20.0 µg/L | < 20.0 µg/L |
| Acrylonitrile | 5.00 µg/L | < 5.00 µg/L |
| Bromobenzene | 5.00 µg/L | < 5.00 µg/L |
| Bromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromodichloromethane | 5.00 µg/L | < 5.00 µg/L |
| Bromoform | 5.00 µg/L | < 5.00 µg/L |
| Carbon disulfide | 5.00 µg/L | < 5.00 µg/L |
| Carbon tetrachloride | 5.00 µg/L | < 5.00 µg/L |
| Chlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| Chloroethane | 5.00 µg/L | < 5.00 µg/L |
| Chloroform | 5.00 µg/L | < 5.00 µg/L |
| 2-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 4-Chlorotoluene | 5.00 µg/L | < 5.00 µg/L |
| 2-Chloroethylvinyl ether | 10.0 µg/L | < 10.0 µg/L |
| Dibromochloromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dibromo-3-chloropropane | 25.0 µg/L | < 25.0 µg/L |

REPORT NUMBER : D97-8658-15
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| 1,2-Dibromoethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,4-Dichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,4-Dichloro-2-butene | 100 µg/L | < 100 µg/L |
| 1,1-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2-Dichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloroethene | 5.00 µg/L | < 5.00 µg/L |
| cis-1,2-Dichloroethene | 5.00 µg/L | 5.68 µg/L |
| 1,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 2,2-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,1-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 1,3-Dichloropropane | 5.00 µg/L | < 5.00 µg/L |
| cis-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| trans-1,3-Dichloropropene | 5.00 µg/L | < 5.00 µg/L |
| 2-Hexanone | 50.0 µg/L | < 50.0 µg/L |
| Bromomethane | 5.00 µg/L | 10.0 µg/L |
| Chloromethane | 5.00 µg/L | 37.8 µg/L |
| Dibromomethane | 5.00 µg/L | < 5.00 µg/L |
| 2-Butanone | 100 µg/L | < 100 µg/L |
| Iodomethane | 5.00 µg/L | < 5.00 µg/L |
| Methylene chloride | 5.00 µg/L | < 5.00 µg/L |
| 4-Methyl-2-pentanone | 100 µg/L | < 100 µg/L |
| Styrene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2,2-Tetrachloroethane | 5.00 µg/L | < 5.00 µg/L |

REPORT NUMBER : D97-8658-15
ANALYSIS METHOD : EPA 8260 /1



| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Tetrachloroethene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trichlorobenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,1,1-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| 1,1,2-Trichloroethane | 5.00 µg/L | < 5.00 µg/L |
| Trichlorofluoromethane | 5.00 µg/L | < 5.00 µg/L |
| 1,2,3-Trichloropropane | 5.00 µg/L | < 5.00 µg/L |
| 1,3,5-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| 1,2,4-Trimethylbenzene | 5.00 µg/L | < 5.00 µg/L |
| Vinyl acetate | 50.0 µg/L | < 50.0 µg/L |
| Vinyl chloride | 2.00 µg/L | < 2.00 µg/L |
| m,p-Xylene | 5.00 µg/L | 626 µg/L |
| o-Xylene | 5.00 µg/L | < 5.00 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 98.2 % |
| Bromofluorobenzene (SS) | | 120 % |
| 1,2-Dichloroethane-d4 (SS) | | 98.2 % |
| Dibromofluoromethane (SS) | | 106 % |

Applicable results are reported on Dry Weight basis.

ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70326-17 LF-Decon
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYSIS METHOD : EPA 8260 /2
ANALYZED BY : MGD
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 10
METHOD FACTOR : 1
QC BATCH NO : 9707187001

| VOLATILE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |
| Benzene | 50.0 µg/L | 792 µg/L |
| trans-1,2-Dichloroethene | 50.0 µg/L | 828 µg/L |
| Ethylbenzene | 50.0 µg/L | 610 µg/L |
| Toluene | 50.0 µg/L | 668 µg/L |
| Trichloroethene | 50.0 µg/L | 875 µg/L |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Toluene-d8 (SS) | | 103 % |
| Bromofluorobenzene (SS) | | 106 % |
| 1,2-Dichloroethane-d4 (SS) | | 104 % |
| Dibromofluoromethane (SS) | | 100 % |

Applicable results are reported on Dry Weight basis.

Intertek Testing Services NA Inc.
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ITS Intertek Testing Services
Environmental Laboratories

DATE RECEIVED : 14-JUL-1997

REPORT NUMBER : D97-8658-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70326-17 LF-Decon
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : MGD
ANALYZED ON : 17-JUL-1997
ANALYSIS METHOD : EPA 8260 /1
QC BATCH NO : 9707177001

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | VOA | 10 ug/L |

Applicable results are reported on Dry Weight basis.

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REPORT NUMBER : D97-8658-15
REPORT DATE : 30-JUL-1997

SAMPLE SUBMITTED BY : US Army Corps of Engineers
ADDRESS : 4815 Cass St.
: Dallas, TX 75235-8011
ATTENTION : Ms. Mai Tran

SAMPLE MATRIX : Liquid
ID MARKS : S70326-17 LF-Decon
: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
PREPARATION METHOD : EPA 3510B
PREPARED BY : TDC
PREPARED ON : 16-JUL-1997
ANALYSIS METHOD : EPA 8270B /1
ANALYZED BY : TC
ANALYZED ON : 18-JUL-1997
DILUTION FACTOR : 10
METHOD FACTOR : 1
QC BATCH NO : AC142-73

| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Acenaphthene | 100 | µg/L | < | 100 | µg/L |
| Acenaphthylene | 100 | µg/L | < | 100 | µg/L |
| Anthracene | 100 | µg/L | < | 100 | µg/L |
| Benzo(a)anthracene | 100 | µg/L | < | 100 | µg/L |
| Benzo(b)fluoranthene | 100 | µg/L | < | 100 | µg/L |
| Benzo(k)fluoranthene | 100 | µg/L | < | 100 | µg/L |
| Benzo(g,h,i)perylene | 100 | µg/L | < | 100 | µg/L |
| Benzo(a)pyrene | 100 | µg/L | < | 100 | µg/L |
| Benzyl alcohol | 200 | µg/L | < | 200 | µg/L |
| Bis(2-chloroethoxy)methane | 100 | µg/L | < | 100 | µg/L |
| Bis(2-chloroethyl)ether | 100 | µg/L | < | 100 | µg/L |
| Bis(2-chloroisopropyl)ether | 100 | µg/L | < | 100 | µg/L |
| Bis(2-ethylhexyl)phthalate | 100 | µg/L | < | 100 | µg/L |
| 4-Bromophenyl phenyl ether | 100 | µg/L | < | 100 | µg/L |



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REPORT NUMBER : D97-8658-15
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| Butyl benzyl phthalate | 100 | µg/L | < | 100 | µg/L |
| Carbazole | 100 | µg/L | < | 100 | µg/L |
| 4-Chloroaniline | 200 | µg/L | < | 200 | µg/L |
| 2-Chloronaphthalene | 100 | µg/L | < | 100 | µg/L |
| 4-Chlorophenyl phenyl ether | 100 | µg/L | < | 100 | µg/L |
| Chrysene | 100 | µg/L | < | 100 | µg/L |
| Dibenz(a,h)anthracene | 100 | µg/L | < | 100 | µg/L |
| Dibenzofuran | 100 | µg/L | < | 100 | µg/L |
| Di-n-butylphthalate | 100 | µg/L | < | 100 | µg/L |
| 1,2-Dichlorobenzene | 100 | µg/L | < | 100 | µg/L |
| 1,3-Dichlorobenzene | 100 | µg/L | < | 100 | µg/L |
| 1,4-Dichlorobenzene | 100 | µg/L | < | 100 | µg/L |
| 3,3'-Dichlorobenzidine | 200 | µg/L | < | 200 | µg/L |
| Diethyl phthalate | 100 | µg/L | < | 100 | µg/L |
| Dimethyl phthalate | 100 | µg/L | < | 100 | µg/L |
| 2,4-Dinitrotoluene | 100 | µg/L | < | 100 | µg/L |
| 2,6-Dinitrotoluene | 100 | µg/L | < | 100 | µg/L |
| Di-n-octylphthalate | 100 | µg/L | < | 100 | µg/L |
| Fluoranthene | 100 | µg/L | < | 100 | µg/L |
| Fluorene | 100 | µg/L | < | 100 | µg/L |
| Hexachlorobenzene | 100 | µg/L | < | 100 | µg/L |
| Hexachlorobutadiene | 100 | µg/L | < | 100 | µg/L |
| Hexachlorocyclopentadiene | 100 | µg/L | < | 100 | µg/L |
| Hexachloroethane | 100 | µg/L | < | 100 | µg/L |
| Indeno(1,2,3-cd)pyrene | 100 | µg/L | < | 100 | µg/L |
| Isophorone | 100 | µg/L | < | 100 | µg/L |

REPORT NUMBER : D97-8658-15
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | | | | |
|---|---|---|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | | RESULTS | | |
| 2-Methylnaphthalene | 100 | µg/L | < | 100 | µg/L |
| Naphthalene | 100 | µg/L | < | 100 | µg/L |
| 2-Nitroaniline | 500 | µg/L | < | 500 | µg/L |
| 3-Nitroaniline | 500 | µg/L | < | 500 | µg/L |
| 4-Nitroaniline | 500 | µg/L | < | 500 | µg/L |
| Nitrobenzene | 100 | µg/L | < | 100 | µg/L |
| N-Nitrosodiphenylamine | 100 | µg/L | < | 100 | µg/L |
| N-Nitrosodi-n-propylamine | 100 | µg/L | < | 100 | µg/L |
| Phenanthrene | 100 | µg/L | < | 100 | µg/L |
| Pyrene | 100 | µg/L | < | 100 | µg/L |
| 1,2,4-Trichlorobenzene | 100 | µg/L | < | 100 | µg/L |
| Benzoic acid | 500 | µg/L | < | 500 | µg/L |
| 4-Chloro-3-methylphenol | 200 | µg/L | < | 200 | µg/L |
| 2-Chlorophenol | 100 | µg/L | < | 100 | µg/L |
| 2,4-Dichlorophenol | 100 | µg/L | < | 100 | µg/L |
| 2,4-Dimethylphenol | 100 | µg/L | < | 100 | µg/L |
| 4,6-Dinitro-2-methylphenol | 500 | µg/L | < | 500 | µg/L |
| 2,4-Dinitrophenol | 500 | µg/L | < | 500 | µg/L |
| 2-Methylphenol | 100 | µg/L | < | 100 | µg/L |
| 4-Methylphenol | 100 | µg/L | < | 100 | µg/L |
| 2-Nitrophenol | 100 | µg/L | < | 100 | µg/L |
| 4-Nitrophenol | 500 | µg/L | < | 500 | µg/L |
| Pentachlorophenol | 500 | µg/L | < | 500 | µg/L |
| Phenol | 100 | µg/L | < | 100 | µg/L |
| 2,4,5-Trichlorophenol | 100 | µg/L | < | 100 | µg/L |
| 2,4,6-Trichlorophenol | 100 | µg/L | < | 100 | µg/L |

REPORT NUMBER : D97-8658-15
ANALYSIS METHOD : EPA 8270B /1



| ACID/BASE-NEUTRAL EXTRACTABLE ORGANICS | | |
|---|---|---|
| TEST REQUESTED | DETECTION LIMIT | RESULTS |

| QUALITY CONTROL DATA | | |
|---|---|---|
| SURROGATE COMPOUND | | SPIKE RECOVERED |
| Nitrobenzene-d5 (SS) | | 36.4 % |
| 2-Fluorobiphenyl (SS) | | 74.8 % |
| Terphenyl-d14 (SS) | | 66.4 % |
| Phenol-d6 (SS) | | 23.4 % |
| 2-Fluorophenol (SS) | | 39.4 % |
| 2,4,6-Tribromophenol (SS) | | 60.7 % |

Applicable results are reported on Dry Weight basis.

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SAMPLE SUBMITTED BY : US Army Corps of Engineers
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: SFL Landfill
PROJECT : Laredo S70326-1-8,10-14,16-17
DATE SAMPLED : 11-JUL-1997
ANALYZED BY : TC
ANALYZED ON : 18-JUL-1997
ANALYSIS METHOD : EPA 625/8270 /1
QC BATCH NO : AC142-73

| TENTATIVELY IDENTIFIED COMPOUNDS | | | |
|---|---|---|---|
| COMPOUND | RETENTION TIME | FRACTION | RESULT |
| No compounds detected above | | ABN | 100.0 ug/L |

Applicable results are reported on Dry Weight basis.

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