

APPENDIX H

Human Health Risk Assessment Calculations



TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 002-08	Inorganics 7439-92-1	Lead	71.3	265	mg/kg	3 / 3	--	265	50	TCEQ	YES	ASL
	PAHs 120-12-7	Anthracene	0.0558	0.0956	mg/kg	3 / 3	--	0.0956	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.439	0.889	mg/kg	3 / 3	--	0.889	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.601	1.18	mg/kg	3 / 3	--	1.18	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.602	1.17	mg/kg	3 / 3	--	1.17	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.498	0.953	mg/kg	3 / 3	--	0.953	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.573	1	mg/kg	3 / 3	--	1	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.314	0.606	mg/kg	3 / 3	--	0.606	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.29	0.561	mg/kg	3 / 3	--	0.561	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.61	1.19	mg/kg	3 / 3	--	1.19	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.114	0.216	mg/kg	3 / 3	--	0.216	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.788	1.66	mg/kg	3 / 3	--	1.66	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.435	0.785	mg/kg	3 / 3	--	0.785	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.249	0.524	mg/kg	3 / 3	--	0.524	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.714	1.5	mg/kg	3 / 3	--	1.5	170	TCEQ	no	BSL
DU 002-09	Inorganics 7439-92-1	Lead	29	40.6	mg/kg	3 / 3	--	40.6	50	TCEQ	no	BSL
	PAHs 205-99-2	Benzo(b)fluoranthene	0.0492	0.0492	mg/kg	1 / 3	0.0747 - 0.0749	0.0492	4.1	TCEQ	no	BSL
	218-01-9	Chrysene	0.0499	0.0499	mg/kg	1 / 3	0.0747 - 0.0749	0.0499	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0753	0.0753	mg/kg	1 / 3	0.0747 - 0.0749	0.0753	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0664	0.0664	mg/kg	1 / 3	0.0747 - 0.0749	0.0664	170	TCEQ	no	BSL
DU 002-16	Inorganics 7439-92-1	Lead	21.3	32.3	mg/kg	3 / 3	--	32.3	50	TCEQ	no	BSL
	PAHs 50-32-8	Benzo(a)pyrene	0.057	0.0572	mg/kg	2 / 3	0.071 - 0.071	0.0572	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.057	0.0599	mg/kg	2 / 3	0.071 - 0.071	0.0599	4.1	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0496	0.0527	mg/kg	2 / 3	0.071 - 0.071	0.0527	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0548	0.0571	mg/kg	2 / 3	0.071 - 0.071	0.0571	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0512	0.0815	mg/kg	3 / 3	--	0.0815	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0658	0.0738	mg/kg	2 / 3	0.071 - 0.071	0.0738	170	TCEQ	no	BSL
DU 002-17	Inorganics 7439-92-1	Lead	18.1	21.3	mg/kg	3 / 3	--	21.3	50	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 002-23	Inorganics 7439-92-1	Lead	9.73	12.4	mg/kg	3 / 3	--	12.4	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0696	0.0696	mg/kg	1 / 3	0.0729 - 0.073	0.0696	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0893	0.0893	mg/kg	1 / 3	0.0729 - 0.073	0.0893	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0494	0.0948	mg/kg	2 / 3	0.0729 - 0.0729	0.0948	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0765	0.0765	mg/kg	1 / 3	0.0729 - 0.073	0.0765	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0815	0.0815	mg/kg	1 / 3	0.0729 - 0.073	0.0815	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0487	0.0924	mg/kg	2 / 3	0.0729 - 0.0729	0.0924	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0548	0.129	mg/kg	3 / 3	--	0.129	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0626	0.0626	mg/kg	1 / 3	0.0729 - 0.073	0.0626	4.2	TCEQ	no	BSL
129-00-0	Pyrene	0.0489	0.119	mg/kg	3 / 3	--	0.119	170	TCEQ	no	BSL	
DU 002-26	Inorganics 7439-92-1	Lead	9.57	25.6	mg/kg	3 / 3	--	25.6	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0522	0.0785	mg/kg	2 / 3	0.0732 - 0.0732	0.0785	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0596	0.102	mg/kg	3 / 3	--	0.102	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0694	0.11	mg/kg	3 / 3	--	0.11	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.055	0.097	mg/kg	3 / 3	--	0.097	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0558	0.0917	mg/kg	3 / 3	--	0.0917	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0601	0.0601	mg/kg	1 / 3	0.0724 - 0.0732	0.0601	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0573	0.0573	mg/kg	1 / 3	0.0724 - 0.0732	0.0573	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0715	0.124	mg/kg	3 / 3	--	0.124	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0878	0.153	mg/kg	3 / 3	--	0.153	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.053	0.0716	mg/kg	2 / 3	0.0732 - 0.0732	0.0716	4.2	TCEQ	no	BSL
	129-00-0	Pyrene	0.081	0.133	mg/kg	3 / 3	--	0.133	170	TCEQ	no	BSL
DU 003	Inorganics 7439-92-1	Lead	27.8	36.1	mg/kg	3 / 3	--	36.1	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0698	0.426	mg/kg	3 / 3	--	0.426	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.644	0.808	mg/kg	3 / 3	--	0.808	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.866	1.11	mg/kg	3 / 3	--	1.11	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.874	1.12	mg/kg	3 / 3	--	1.12	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.712	0.905	mg/kg	3 / 3	--	0.905	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.698	0.898	mg/kg	3 / 3	--	0.898	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.449	0.571	mg/kg	3 / 3	--	0.571	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.403	0.515	mg/kg	3 / 3	--	0.515	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.885	1.11	mg/kg	3 / 3	--	1.11	410	TCEQ	no	BSL

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Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 003 Cont.	53-70-3	Dibenzo(a,h)anthracene	0.147	0.188	mg/kg	3 / 3	--	0.188	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	1.24	1.59	mg/kg	3 / 3	--	1.59	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.563	0.732	mg/kg	3 / 3	--	0.732	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.41	0.532	mg/kg	3 / 3	--	0.532	170	TCEQ	no	BSL
	129-00-0	Pyrene	1.12	1.44	mg/kg	3 / 3	--	1.44	170	TCEQ	no	BSL
DU 004	Inorganics											
	7439-92-1	Lead	19	23.6	mg/kg	3 / 3	--	23.6	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0573	0.0585	mg/kg	2 / 3	0.0723 - 0.0723	0.0585	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.361	0.581	mg/kg	3 / 3	--	0.581	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.491	0.811	mg/kg	3 / 3	--	0.811	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.484	0.789	mg/kg	3 / 3	--	0.789	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.406	0.656	mg/kg	3 / 3	--	0.656	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.389	0.651	mg/kg	3 / 3	--	0.651	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.251	0.41	mg/kg	3 / 3	--	0.41	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.226	0.372	mg/kg	3 / 3	--	0.372	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.488	0.788	mg/kg	3 / 3	--	0.788	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0823	0.136	mg/kg	3 / 3	--	0.136	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.689	1.08	mg/kg	3 / 3	--	1.08	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.314	0.527	mg/kg	3 / 3	--	0.527	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.239	0.387	mg/kg	3 / 3	--	0.387	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.622	0.983	mg/kg	3 / 3	--	0.983	170	TCEQ	no	BSL
DU 005	Inorganics											
	7439-92-1	Lead	29	32	mg/kg	3 / 3	--	32	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0575	0.0657	mg/kg	3 / 3	--	0.0657	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.594	0.744	mg/kg	3 / 3	--	0.744	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.784	0.999	mg/kg	3 / 3	--	0.999	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.818	1.02	mg/kg	3 / 3	--	1.02	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.665	0.826	mg/kg	3 / 3	--	0.826	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.665	0.824	mg/kg	3 / 3	--	0.824	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.422	0.526	mg/kg	3 / 3	--	0.526	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.382	0.469	mg/kg	3 / 3	--	0.469	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.821	1.01	mg/kg	3 / 3	--	1.01	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.14	0.177	mg/kg	3 / 3	--	0.177	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	1.13	1.38	mg/kg	3 / 3	--	1.38	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.537	0.669	mg/kg	3 / 3	--	0.669	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.366	0.428	mg/kg	3 / 3	--	0.428	170	TCEQ	no	BSL
	129-00-0	Pyrene	1.03	1.27	mg/kg	3 / 3	--	1.27	170	TCEQ	no	BSL

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OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 006	Inorganics											
	7439-92-1	Lead	28.5	33.5	mg/kg	3 / 3	--	33.5	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.0498	0.0741	mg/kg	3 / 3	--	0.0741	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.151	0.239	mg/kg	3 / 3	--	0.239	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	1.53	2.26	mg/kg	3 / 3	--	2.26	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	2.09	2.97	mg/kg	3 / 3	--	2.97	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	2.05	2.92	mg/kg	3 / 3	--	2.92	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	1.65	2.34	mg/kg	3 / 3	--	2.34	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	1.63	2.34	mg/kg	3 / 3	--	2.34	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	1.05	1.5	mg/kg	3 / 3	--	1.5	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.948	1.38	mg/kg	3 / 3	--	1.38	42	TCEQ	no	BSL
	218-01-9	Chrysene	2.02	2.95	mg/kg	3 / 3	--	2.95	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.351	0.507	mg/kg	3 / 3	--	0.507	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	2.76	4.28	mg/kg	3 / 3	--	4.28	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	1.34	1.91	mg/kg	3 / 3	--	1.91	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.912	1.42	mg/kg	3 / 3	--	1.42	170	TCEQ	no	BSL
	129-00-0	Pyrene	2.48	3.8	mg/kg	3 / 3	--	3.8	170	TCEQ	no	BSL
DU 009	Inorganics											
	7439-92-1	Lead	23.7	26.9	mg/kg	3 / 3	--	26.9	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0604	0.0682	mg/kg	2 / 3	0.0737 - 0.0737	0.0682	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.588	0.758	mg/kg	3 / 3	--	0.758	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.845	1.05	mg/kg	3 / 3	--	1.05	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.824	1.03	mg/kg	3 / 3	--	1.03	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.683	0.844	mg/kg	3 / 3	--	0.844	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.677	0.832	mg/kg	3 / 3	--	0.832	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.436	0.536	mg/kg	3 / 3	--	0.536	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.387	0.476	mg/kg	3 / 3	--	0.476	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.818	1.03	mg/kg	3 / 3	--	1.03	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.146	0.177	mg/kg	3 / 3	--	0.177	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	1.06	1.41	mg/kg	3 / 3	--	1.41	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.556	0.68	mg/kg	3 / 3	--	0.68	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.332	0.445	mg/kg	3 / 3	--	0.445	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.974	1.27	mg/kg	3 / 3	--	1.27	170	TCEQ	no	BSL

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Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 010-01	Inorganics											
	7439-92-1	Lead	25.3	30.7	mg/kg	3 / 3	--	30.7	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0561	0.0643	mg/kg	3 / 3	--	0.0643	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.378	0.46	mg/kg	3 / 3	--	0.46	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.513	0.622	mg/kg	3 / 3	--	0.622	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.498	0.593	mg/kg	3 / 3	--	0.593	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.365	0.457	mg/kg	3 / 3	--	0.457	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.471	0.569	mg/kg	3 / 3	--	0.569	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.251	0.303	mg/kg	3 / 3	--	0.303	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.303	0.344	mg/kg	3 / 3	--	0.344	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.491	0.596	mg/kg	3 / 3	--	0.596	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.145	0.157	mg/kg	3 / 3	--	0.157	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.571	0.663	mg/kg	3 / 3	--	0.663	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.4	0.475	mg/kg	3 / 3	--	0.475	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.247	0.282	mg/kg	3 / 3	--	0.282	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.494	0.573	mg/kg	3 / 3	--	0.573	170	TCEQ	no	BSL	
DU 010-03	Inorganics											
	7439-92-1	Lead	26.5	37.6	mg/kg	3 / 3	--	37.6	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.0537	0.0774	mg/kg	3 / 3	--	0.0774	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.145	0.206	mg/kg	3 / 3	--	0.206	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	1.52	2.19	mg/kg	3 / 3	--	2.19	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	2.09	3.04	mg/kg	3 / 3	--	3.04	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	1.98	2.85	mg/kg	3 / 3	--	2.85	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	1.64	2.38	mg/kg	3 / 3	--	2.38	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	1.68	2.45	mg/kg	3 / 3	--	2.45	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	1.06	1.54	mg/kg	3 / 3	--	1.54	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	1.03	1.51	mg/kg	3 / 3	--	1.51	42	TCEQ	no	BSL
	218-01-9	Chrysene	1.88	2.69	mg/kg	3 / 3	--	2.69	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.367	0.524	mg/kg	3 / 3	--	0.524	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	2.34	3.4	mg/kg	3 / 3	--	3.4	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	1.35	1.95	mg/kg	3 / 3	--	1.95	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.788	1.13	mg/kg	3 / 3	--	1.13	170	TCEQ	no	BSL
	129-00-0	Pyrene	2.06	2.97	mg/kg	3 / 3	--	2.97	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 010-04	Inorganics											
	7439-92-1	Lead	59.1	62.6	mg/kg	3 / 3	--	62.6	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.113	0.125	mg/kg	3 / 3	--	0.125	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.285	0.36	mg/kg	3 / 3	--	0.36	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	2.93	3.39	mg/kg	3 / 3	--	3.39	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	4.01	4.57	mg/kg	3 / 3	--	4.57	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	3.65	4.23	mg/kg	3 / 3	--	4.23	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	3.06	3.53	mg/kg	3 / 3	--	3.53	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	3.15	3.62	mg/kg	3 / 3	--	3.62	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	2	2.3	mg/kg	3 / 3	--	2.3	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	1.92	2.22	mg/kg	3 / 3	--	2.22	42	TCEQ	no	BSL
	218-01-9	Chrysene	3.61	4.08	mg/kg	3 / 3	--	4.08	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.679	0.792	mg/kg	3 / 3	--	0.792	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	4.5	5.41	mg/kg	3 / 3	--	5.41	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0512	0.0512	mg/kg	1 / 3	0.0736 - 0.0747	0.0512	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	2.53	2.93	mg/kg	3 / 3	--	2.93	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	1.52	1.93	mg/kg	3 / 3	--	1.93	170	TCEQ	no	BSL
	129-00-0	Pyrene	3.98	4.66	mg/kg	3 / 3	--	4.66	170	TCEQ	no	BSL
DU 010-06	Inorganics											
	7439-92-1	Lead	52.8	63.1	mg/kg	3 / 3	--	63.1	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.143	0.178	mg/kg	3 / 3	--	0.178	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.348	0.382	mg/kg	3 / 3	--	0.382	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	3.2	4.21	mg/kg	3 / 3	--	4.21	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	4.41	6.04	mg/kg	3 / 3	--	6.04	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	4.15	5.73	mg/kg	3 / 3	--	5.73	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	3.19	4.4	mg/kg	3 / 3	--	4.4	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	3.75	5.23	mg/kg	3 / 3	--	5.23	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	2.23	3.08	mg/kg	3 / 3	--	3.08	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	2.36	3.26	mg/kg	3 / 3	--	3.26	42	TCEQ	no	BSL
	218-01-9	Chrysene	4.01	5.35	mg/kg	3 / 3	--	5.35	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.897	1.23	mg/kg	3 / 3	--	1.23	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	4.49	5.58	mg/kg	3 / 3	--	5.58	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0589	0.0785	mg/kg	3 / 3	--	0.0785	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	3.21	4.47	mg/kg	3 / 3	--	4.47	4.2	TCEQ	YES	ASL
	85-01-8	Phenanthrene	1.9	2.22	mg/kg	3 / 3	--	2.22	170	TCEQ	no	BSL
	129-00-0	Pyrene	3.96	4.95	mg/kg	3 / 3	--	4.95	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 016	Inorganics											
	7439-92-1	Lead	12.2	13	mg/kg	3 / 3	--	13	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.161	0.252	mg/kg	3 / 3	--	0.252	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.211	0.344	mg/kg	3 / 3	--	0.344	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.203	0.346	mg/kg	3 / 3	--	0.346	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.171	0.292	mg/kg	3 / 3	--	0.292	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.176	0.286	mg/kg	3 / 3	--	0.286	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.108	0.182	mg/kg	3 / 3	--	0.182	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0983	0.167	mg/kg	3 / 3	--	0.167	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.216	0.354	mg/kg	3 / 3	--	0.354	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0581	0.0594	mg/kg	2 / 3	0.0729 - 0.0729	0.0594	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.297	0.479	mg/kg	3 / 3	--	0.479	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.139	0.229	mg/kg	3 / 3	--	0.229	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0953	0.162	mg/kg	3 / 3	--	0.162	170	TCEQ	no	BSL
129-00-0	Pyrene	0.264	0.439	mg/kg	3 / 3	--	0.439	170	TCEQ	no	BSL	
DU 017	Inorganics											
	7439-92-1	Lead	15	16.1	mg/kg	3 / 3	--	16.1	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.395	0.464	mg/kg	3 / 3	--	0.464	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.551	0.625	mg/kg	3 / 3	--	0.625	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.548	0.624	mg/kg	3 / 3	--	0.624	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.466	0.513	mg/kg	3 / 3	--	0.513	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.456	0.518	mg/kg	3 / 3	--	0.518	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.291	0.328	mg/kg	3 / 3	--	0.328	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.26	0.292	mg/kg	3 / 3	--	0.292	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.548	0.646	mg/kg	3 / 3	--	0.646	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0974	0.11	mg/kg	3 / 3	--	0.11	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.761	0.904	mg/kg	3 / 3	--	0.904	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.368	0.412	mg/kg	3 / 3	--	0.412	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.235	0.279	mg/kg	3 / 3	--	0.279	170	TCEQ	no	BSL
129-00-0	Pvrene	0.698	0.833	ma/kg	3 / 3	--	0.833	170	TCEQ	no	BSL	

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 019-01	Inorganics											
	7439-92-1	Lead	17.8	22	mg/kg	3 / 3	--	22	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.346	0.382	mg/kg	3 / 3	--	0.382	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.479	0.546	mg/kg	3 / 3	--	0.546	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.48	0.516	mg/kg	3 / 3	--	0.516	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.397	0.471	mg/kg	3 / 3	--	0.471	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.422	0.503	mg/kg	3 / 3	--	0.503	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.248	0.29	mg/kg	3 / 3	--	0.29	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.228	0.259	mg/kg	3 / 3	--	0.259	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.499	0.578	mg/kg	3 / 3	--	0.578	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.088	0.105	mg/kg	3 / 3	--	0.105	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.626	0.74	mg/kg	3 / 3	--	0.74	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.338	0.404	mg/kg	3 / 3	--	0.404	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.18	0.209	mg/kg	3 / 3	--	0.209	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.57	0.663	mg/kg	3 / 3	--	0.663	170	TCEQ	no	BSL	
DU 019-02	Inorganics											
	7439-92-1	Lead	16.1	17.1	mg/kg	3 / 3	--	17.1	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.159	0.192	mg/kg	3 / 3	--	0.192	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.222	0.259	mg/kg	3 / 3	--	0.259	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.214	0.254	mg/kg	3 / 3	--	0.254	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.181	0.214	mg/kg	3 / 3	--	0.214	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.191	0.229	mg/kg	3 / 3	--	0.229	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.115	0.131	mg/kg	3 / 3	--	0.131	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.107	0.123	mg/kg	3 / 3	--	0.123	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.221	0.256	mg/kg	3 / 3	--	0.256	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0474	0.0529	mg/kg	2 / 3	0.0735 - 0.0735	0.0529	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.273	0.342	mg/kg	3 / 3	--	0.342	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.154	0.179	mg/kg	3 / 3	--	0.179	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0906	0.116	mg/kg	3 / 3	--	0.116	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.251	0.307	mg/kg	3 / 3	--	0.307	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 019-03	Inorganics											
	7439-92-1	Lead	20.5	23.8	mg/kg	3 / 3	--	23.8	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.055	0.0697	mg/kg	3 / 3	--	0.0697	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.583	0.658	mg/kg	3 / 3	--	0.658	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.806	0.944	mg/kg	3 / 3	--	0.944	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.743	0.878	mg/kg	3 / 3	--	0.878	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.638	0.725	mg/kg	3 / 3	--	0.725	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.692	0.798	mg/kg	3 / 3	--	0.798	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.39	0.448	mg/kg	3 / 3	--	0.448	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.357	0.421	mg/kg	3 / 3	--	0.421	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.774	0.879	mg/kg	3 / 3	--	0.879	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.143	0.165	mg/kg	3 / 3	--	0.165	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.924	1.11	mg/kg	3 / 3	--	1.11	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.544	0.611	mg/kg	3 / 3	--	0.611	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.306	0.366	mg/kg	3 / 3	--	0.366	170	TCEQ	no	BSL
129-00-0	Pyrene	0.842	1.01	mg/kg	3 / 3	--	1.01	170	TCEQ	no	BSL	
DU 019-04	Inorganics											
	7439-92-1	Lead	16.6	23.8	mg/kg	2 / 2	--	23.8	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.299	0.334	mg/kg	2 / 2	--	0.334	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.422	0.442	mg/kg	2 / 2	--	0.442	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.436	0.452	mg/kg	2 / 2	--	0.452	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.355	0.368	mg/kg	2 / 2	--	0.368	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.331	0.333	mg/kg	2 / 2	--	0.333	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.226	0.234	mg/kg	2 / 2	--	0.234	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.195	0.208	mg/kg	2 / 2	--	0.208	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.415	0.458	mg/kg	2 / 2	--	0.458	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0683	0.0751	mg/kg	2 / 2	--	0.0751	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.557	0.621	mg/kg	2 / 2	--	0.621	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.265	0.272	mg/kg	2 / 2	--	0.272	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.183	0.221	mg/kg	2 / 2	--	0.221	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.505	0.562	mg/kg	2 / 2	--	0.562	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 019-05	Inorganics											
	7439-92-1	Lead	20.4	21.4	mg/kg	2 / 2	--	21.4	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.265	0.293	mg/kg	2 / 2	--	0.293	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.367	0.413	mg/kg	2 / 2	--	0.413	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.388	0.43	mg/kg	2 / 2	--	0.43	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.322	0.351	mg/kg	2 / 2	--	0.351	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.317	0.321	mg/kg	2 / 2	--	0.321	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.196	0.217	mg/kg	2 / 2	--	0.217	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.178	0.193	mg/kg	2 / 2	--	0.193	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.382	0.418	mg/kg	2 / 2	--	0.418	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0636	0.0682	mg/kg	2 / 2	--	0.0682	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.527	0.538	mg/kg	2 / 2	--	0.538	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.247	0.258	mg/kg	2 / 2	--	0.258	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.163	0.163	mg/kg	2 / 2	--	0.163	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.474	0.495	mg/kg	2 / 2	--	0.495	170	TCEQ	no	BSL	
DU 021	Inorganics											
	7439-92-1	Lead	25.9	26.6	mg/kg	3 / 3	--	26.6	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.21	0.257	mg/kg	3 / 3	--	0.257	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.284	0.351	mg/kg	3 / 3	--	0.351	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.282	0.339	mg/kg	3 / 3	--	0.339	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.232	0.285	mg/kg	3 / 3	--	0.285	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.23	0.283	mg/kg	3 / 3	--	0.283	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.15	0.179	mg/kg	3 / 3	--	0.179	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.134	0.162	mg/kg	3 / 3	--	0.162	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.289	0.346	mg/kg	3 / 3	--	0.346	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0573	0.0616	mg/kg	2 / 3	0.0748 - 0.0748	0.0616	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.414	0.484	mg/kg	3 / 3	--	0.484	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.185	0.226	mg/kg	3 / 3	--	0.226	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.149	0.171	mg/kg	3 / 3	--	0.171	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.375	0.44	mg/kg	3 / 3	--	0.44	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 023	Inorganics 7439-92-1	Lead	27	29.5	mg/kg	2 / 2	--	29.5	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.238	0.262	mg/kg	2 / 2	--	0.262	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.316	0.348	mg/kg	2 / 2	--	0.348	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.326	0.353	mg/kg	2 / 2	--	0.353	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.267	0.289	mg/kg	2 / 2	--	0.289	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.262	0.28	mg/kg	2 / 2	--	0.28	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.174	0.188	mg/kg	2 / 2	--	0.188	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.165	0.179	mg/kg	2 / 2	--	0.179	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.3	0.339	mg/kg	2 / 2	--	0.339	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0599	0.0622	mg/kg	2 / 2	--	0.0622	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.433	0.46	mg/kg	2 / 2	--	0.46	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.204	0.225	mg/kg	2 / 2	--	0.225	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.145	0.154	mg/kg	2 / 2	--	0.154	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.38	0.407	mg/kg	2 / 2	--	0.407	170	TCEQ	no	BSL
DU 024	Inorganics 7439-92-1	Lead	35.2	41.6	mg/kg	3 / 3	--	41.6	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.171	0.285	mg/kg	3 / 3	--	0.285	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.239	0.395	mg/kg	3 / 3	--	0.395	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.222	0.359	mg/kg	3 / 3	--	0.359	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.201	0.313	mg/kg	3 / 3	--	0.313	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.212	0.337	mg/kg	3 / 3	--	0.337	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.122	0.194	mg/kg	3 / 3	--	0.194	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.111	0.18	mg/kg	3 / 3	--	0.18	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.244	0.393	mg/kg	3 / 3	--	0.393	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0508	0.072	mg/kg	2 / 3	0.074 - 0.074	0.072	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.306	0.503	mg/kg	3 / 3	--	0.503	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.168	0.271	mg/kg	3 / 3	--	0.271	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.104	0.173	mg/kg	3 / 3	--	0.173	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.275	0.449	mg/kg	3 / 3	--	0.449	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 033	Inorganics 7439-92-1	Lead	26.3	38.8	mg/kg	3 / 3	--	38.8	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.151	0.18	mg/kg	3 / 3	--	0.18	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.201	0.226	mg/kg	3 / 3	--	0.226	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.2	0.231	mg/kg	3 / 3	--	0.231	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.167	0.191	mg/kg	3 / 3	--	0.191	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.154	0.183	mg/kg	3 / 3	--	0.183	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.106	0.12	mg/kg	3 / 3	--	0.12	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.098	0.113	mg/kg	3 / 3	--	0.113	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.208	0.252	mg/kg	3 / 3	--	0.252	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.286	0.362	mg/kg	3 / 3	--	0.362	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.126	0.144	mg/kg	3 / 3	--	0.144	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.104	0.124	mg/kg	3 / 3	--	0.124	170	TCEQ	no	BSL
129-00-0	Pyrene	0.251	0.313	mg/kg	3 / 3	--	0.313	170	TCEQ	no	BSL	
DU 037	Inorganics 7439-92-1	Lead	13.4	14.6	mg/kg	3 / 3	--	14.6	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.091	0.171	mg/kg	3 / 3	--	0.171	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.124	0.228	mg/kg	3 / 3	--	0.228	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.122	0.219	mg/kg	3 / 3	--	0.219	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0994	0.184	mg/kg	3 / 3	--	0.184	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0951	0.176	mg/kg	3 / 3	--	0.176	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0629	0.119	mg/kg	3 / 3	--	0.119	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0559	0.105	mg/kg	3 / 3	--	0.105	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.122	0.232	mg/kg	3 / 3	--	0.232	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.165	0.335	mg/kg	3 / 3	--	0.335	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0764	0.14	mg/kg	3 / 3	--	0.14	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0686	0.127	mg/kg	3 / 3	--	0.127	170	TCEQ	no	BSL
129-00-0	Pyrene	0.148	0.293	mg/kg	3 / 3	--	0.293	170	TCEQ	no	BSL	

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 038	Inorganics 7439-92-1	Lead	10.3	11.2	mg/kg	3 / 3	--	11.2	50	TCEQ	no	BSL	
	PAHs 56-55-3	Benzo(a)anthracene	0.25	0.319	mg/kg	3 / 3	--	0.319	4.1	TCEQ	no	BSL	
	50-32-8	Benzo(a)pyrene	0.321	0.395	mg/kg	3 / 3	--	0.395	0.41	TCEQ	no	BSL	
	205-99-2	Benzo(b)fluoranthene	0.305	0.379	mg/kg	3 / 3	--	0.379	4.1	TCEQ	no	BSL	
	192-97-2	Benzo(e)pyrene	0.245	0.307	mg/kg	3 / 3	--	0.307	180	TCEQ	no	BSL	
	191-24-2	Benzo(g,h,i)perylene	0.272	0.32	mg/kg	3 / 3	--	0.32	180	TCEQ	no	BSL	
	205-82-3	Benzo(j)fluoranthene	0.159	0.197	mg/kg	3 / 3	--	0.197	3.9	TCEQ	no	BSL	
	207-08-9	Benzo(k)fluoranthene	0.155	0.192	mg/kg	3 / 3	--	0.192	42	TCEQ	no	BSL	
	218-01-9	Chrysene	0.319	0.408	mg/kg	3 / 3	--	0.408	410	TCEQ	no	BSL	
	53-70-3	Dibenzo(a,h)anthracene	0.0566	0.0566	mg/kg	1 / 3	0.0742 - 0.0747	0.0566	0.4	TCEQ	no	BSL	
	206-44-0	Fluoranthene	0.419	0.541	mg/kg	3 / 3	--	0.541	230	TCEQ	no	BSL	
	193-39-5	Indeno(1,2,3-cd)pyrene	0.211	0.255	mg/kg	3 / 3	--	0.255	4.2	TCEQ	no	BSL	
	85-01-8	Phenanthrene	0.184	0.237	mg/kg	3 / 3	--	0.237	170	TCEQ	no	BSL	
	129-00-0	Pyrene	0.361	0.466	mg/kg	3 / 3	--	0.466	170	TCEQ	no	BSL	
	DU 039	Inorganics 7439-92-1	Lead	11.7	12.6	mg/kg	3 / 3	--	12.6	50	TCEQ	no	BSL
		PAHs 56-55-3	Benzo(a)anthracene	0.149	0.293	mg/kg	3 / 3	--	0.293	4.1	TCEQ	no	BSL
50-32-8		Benzo(a)pyrene	0.195	0.415	mg/kg	3 / 3	--	0.415	0.41	TCEQ	YES	ASL	
205-99-2		Benzo(b)fluoranthene	0.191	0.423	mg/kg	3 / 3	--	0.423	4.1	TCEQ	no	BSL	
192-97-2		Benzo(e)pyrene	0.159	0.349	mg/kg	3 / 3	--	0.349	180	TCEQ	no	BSL	
191-24-2		Benzo(g,h,i)perylene	0.156	0.357	mg/kg	3 / 3	--	0.357	180	TCEQ	no	BSL	
205-82-3		Benzo(j)fluoranthene	0.103	0.221	mg/kg	3 / 3	--	0.221	3.9	TCEQ	no	BSL	
207-08-9		Benzo(k)fluoranthene	0.0927	0.2	mg/kg	3 / 3	--	0.2	42	TCEQ	no	BSL	
218-01-9		Chrysene	0.204	0.413	mg/kg	3 / 3	--	0.413	410	TCEQ	no	BSL	
53-70-3		Dibenzo(a,h)anthracene	0.0735	0.0735	mg/kg	1 / 3	0.0716 - 0.0733	0.0735	0.4	TCEQ	no	BSL	
206-44-0		Fluoranthene	0.288	0.554	mg/kg	3 / 3	--	0.554	230	TCEQ	no	BSL	
193-39-5		Indeno(1,2,3-cd)pyrene	0.127	0.279	mg/kg	3 / 3	--	0.279	4.2	TCEQ	no	BSL	
85-01-8		Phenanthrene	0.0926	0.176	mg/kg	3 / 3	--	0.176	170	TCEQ	no	BSL	
129-00-0		Pyrene	0.262	0.513	mg/kg	3 / 3	--	0.513	170	TCEQ	no	BSL	

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 040	Inorganics											
	7439-92-1	Lead	17.4	23.6	mg/kg	3 / 3	--	23.6	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0637	0.0996	mg/kg	3 / 3	--	0.0996	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.498	0.718	mg/kg	3 / 3	--	0.718	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.605	0.862	mg/kg	3 / 3	--	0.862	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.601	0.819	mg/kg	3 / 3	--	0.819	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.467	0.648	mg/kg	3 / 3	--	0.648	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.428	0.627	mg/kg	3 / 3	--	0.627	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.322	0.439	mg/kg	3 / 3	--	0.439	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.289	0.393	mg/kg	3 / 3	--	0.393	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.63	0.882	mg/kg	3 / 3	--	0.882	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0919	0.132	mg/kg	3 / 3	--	0.132	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.908	1.35	mg/kg	3 / 3	--	1.35	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.344	0.497	mg/kg	3 / 3	--	0.497	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.324	0.521	mg/kg	3 / 3	--	0.521	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.786	1.15	mg/kg	3 / 3	--	1.15	170	TCEQ	no	BSL	
DU 044	Inorganics											
	7439-92-1	Lead	14.8	21.7	mg/kg	3 / 3	--	21.7	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.232	0.246	mg/kg	3 / 3	--	0.246	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.303	0.333	mg/kg	3 / 3	--	0.333	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.303	0.331	mg/kg	3 / 3	--	0.331	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.245	0.264	mg/kg	3 / 3	--	0.264	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.23	0.255	mg/kg	3 / 3	--	0.255	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.161	0.177	mg/kg	3 / 3	--	0.177	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.141	0.155	mg/kg	3 / 3	--	0.155	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.315	0.335	mg/kg	3 / 3	--	0.335	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0527	0.0536	mg/kg	2 / 3	0.0749 - 0.0749	0.0536	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.449	0.471	mg/kg	3 / 3	--	0.471	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.189	0.205	mg/kg	3 / 3	--	0.205	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.156	0.159	mg/kg	3 / 3	--	0.159	170	TCEQ	no	BSL
129-00-0	Pyrene	0.404	0.425	mg/kg	3 / 3	--	0.425	170	TCEQ	no	BSL	

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 046	Inorganics 7439-92-1	Lead	12.5	13.4	mg/kg	3 / 3	--	13.4	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.238	0.379	mg/kg	3 / 3	--	0.379	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.323	0.514	mg/kg	3 / 3	--	0.514	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.31	0.479	mg/kg	3 / 3	--	0.479	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.262	0.401	mg/kg	3 / 3	--	0.401	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.272	0.417	mg/kg	3 / 3	--	0.417	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.169	0.26	mg/kg	3 / 3	--	0.26	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.153	0.246	mg/kg	3 / 3	--	0.246	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.324	0.519	mg/kg	3 / 3	--	0.519	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0564	0.087	mg/kg	3 / 3	--	0.087	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.412	0.686	mg/kg	3 / 3	--	0.686	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.213	0.332	mg/kg	3 / 3	--	0.332	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.141	0.225	mg/kg	3 / 3	--	0.225	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.38	0.628	mg/kg	3 / 3	--	0.628	170	TCEQ	no	BSL
DU 047	Inorganics 7439-92-1	Lead	20.6	22.9	mg/kg	3 / 3	--	22.9	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0593	0.0775	mg/kg	3 / 3	--	0.0775	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.53	0.647	mg/kg	3 / 3	--	0.647	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.705	0.804	mg/kg	3 / 3	--	0.804	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.704	0.806	mg/kg	3 / 3	--	0.806	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.58	0.648	mg/kg	3 / 3	--	0.648	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.522	0.604	mg/kg	3 / 3	--	0.604	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.378	0.431	mg/kg	3 / 3	--	0.431	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.335	0.384	mg/kg	3 / 3	--	0.384	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.693	0.814	mg/kg	3 / 3	--	0.814	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.112	0.128	mg/kg	3 / 3	--	0.128	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.852	1.08	mg/kg	3 / 3	--	1.08	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.411	0.477	mg/kg	3 / 3	--	0.477	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.306	0.384	mg/kg	3 / 3	--	0.384	170	TCEQ	no	BSL
	129-00-0	Pvrene	0.734	0.934	ma/kg	3 / 3	--	0.934	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 049	Inorganics											
	7439-92-1	Lead	42.7	56.7	mg/kg	3 / 3	--	56.7	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.137	0.25	mg/kg	3 / 3	--	0.25	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.441	0.881	mg/kg	3 / 3	--	0.881	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	4.33	8.43	mg/kg	3 / 3	--	8.43	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	5.86	11.2	mg/kg	3 / 3	--	11.2	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	5.6	10.6	mg/kg	3 / 3	--	10.6	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	4.55	8.37	mg/kg	3 / 3	--	8.37	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	4.48	8.06	mg/kg	3 / 3	--	8.06	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	2.87	5.41	mg/kg	3 / 3	--	5.41	3.9	TCEQ	YES	ASL
	207-08-9	Benzo(k)fluoranthene	2.71	5.35	mg/kg	3 / 3	--	5.35	42	TCEQ	no	BSL
	218-01-9	Chrysene	5.71	11	mg/kg	3 / 3	--	11	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.986	1.83	mg/kg	3 / 3	--	1.83	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	7.8	15.3	mg/kg	3 / 3	--	15.3	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0549	0.101	mg/kg	3 / 3	--	0.101	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	3.65	6.72	mg/kg	3 / 3	--	6.72	4.2	TCEQ	YES	ASL
	85-01-8	Phenanthrene	2.55	4.94	mg/kg	3 / 3	--	4.94	170	TCEQ	no	BSL
	129-00-0	Pyrene	6.92	13.4	mg/kg	3 / 3	--	13.4	170	TCEQ	no	BSL
DU 050	Inorganics											
	7439-92-1	Lead	21.7	23.5	mg/kg	3 / 3	--	23.5	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.0577	0.0749	mg/kg	3 / 3	--	0.0749	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.202	0.247	mg/kg	3 / 3	--	0.247	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	1.9	2.4	mg/kg	3 / 3	--	2.4	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	2.49	3.34	mg/kg	3 / 3	--	3.34	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	2.28	2.93	mg/kg	3 / 3	--	2.93	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	1.89	2.54	mg/kg	3 / 3	--	2.54	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	2.11	2.96	mg/kg	3 / 3	--	2.96	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	1.18	1.53	mg/kg	3 / 3	--	1.53	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	1.08	1.46	mg/kg	3 / 3	--	1.46	42	TCEQ	no	BSL
	218-01-9	Chrysene	2.45	3.12	mg/kg	3 / 3	--	3.12	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.449	0.624	mg/kg	3 / 3	--	0.624	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	2.92	3.7	mg/kg	3 / 3	--	3.7	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	1.7	2.39	mg/kg	3 / 3	--	2.39	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	1.1	1.39	mg/kg	3 / 3	--	1.39	170	TCEQ	no	BSL
	129-00-0	Pyrene	2.6	3.29	mg/kg	3 / 3	--	3.29	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 053	Inorganics											
	7439-92-1	Lead	19.9	26.2	mg/kg	3 / 3	--	26.2	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.097	0.134	mg/kg	3 / 3	--	0.134	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	1.03	1.41	mg/kg	3 / 3	--	1.41	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	1.36	1.88	mg/kg	3 / 3	--	1.88	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	1.29	1.74	mg/kg	3 / 3	--	1.74	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	1.05	1.46	mg/kg	3 / 3	--	1.46	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	1.15	1.56	mg/kg	3 / 3	--	1.56	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.672	0.925	mg/kg	3 / 3	--	0.925	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.598	0.828	mg/kg	3 / 3	--	0.828	42	TCEQ	no	BSL
	218-01-9	Chrysene	1.33	1.81	mg/kg	3 / 3	--	1.81	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.239	0.326	mg/kg	3 / 3	--	0.326	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	1.74	2.48	mg/kg	3 / 3	--	2.48	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.919	1.25	mg/kg	3 / 3	--	1.25	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.565	0.754	mg/kg	3 / 3	--	0.754	170	TCEQ	no	BSL	
129-00-0	Pyrene	1.55	2.24	mg/kg	3 / 3	--	2.24	170	TCEQ	no	BSL	
DU 054	Inorganics											
	7439-92-1	Lead	25.7	33.7	mg/kg	3 / 3	--	33.7	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.0567	0.134	mg/kg	3 / 3	--	0.134	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.175	0.541	mg/kg	3 / 3	--	0.541	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	1.99	6.45	mg/kg	3 / 3	--	6.45	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	2.72	8.96	mg/kg	3 / 3	--	8.96	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	2.54	8.02	mg/kg	3 / 3	--	8.02	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	2.07	6.75	mg/kg	3 / 3	--	6.75	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	2.29	7.46	mg/kg	3 / 3	--	7.46	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	1.31	4.06	mg/kg	3 / 3	--	4.06	3.9	TCEQ	YES	ASL
	207-08-9	Benzo(k)fluoranthene	1.22	3.89	mg/kg	3 / 3	--	3.89	42	TCEQ	no	BSL
	218-01-9	Chrysene	2.63	8.88	mg/kg	3 / 3	--	8.88	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.489	1.58	mg/kg	3 / 3	--	1.58	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	3.34	9.82	mg/kg	3 / 3	--	9.82	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	1.85	6.11	mg/kg	3 / 3	--	6.11	4.2	TCEQ	YES	ASL
	85-01-8	Phenanthrene	1.02	3.18	mg/kg	3 / 3	--	3.18	170	TCEQ	no	BSL
	129-00-0	Pyrene	3.03	8.62	mg/kg	3 / 3	--	8.62	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 056	Inorganics											
	7439-92-1	Lead	24.3	68.3	mg/kg	3 / 3	--	68.3	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0771	0.0907	mg/kg	3 / 3	--	0.0907	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.265	0.342	mg/kg	3 / 3	--	0.342	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	2.68	3.73	mg/kg	3 / 3	--	3.73	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	3.53	5.01	mg/kg	3 / 3	--	5.01	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	3.32	4.94	mg/kg	3 / 3	--	4.94	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	2.66	3.9	mg/kg	3 / 3	--	3.9	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	2.73	3.92	mg/kg	3 / 3	--	3.92	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	1.76	2.51	mg/kg	3 / 3	--	2.51	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	1.6	2.32	mg/kg	3 / 3	--	2.32	42	TCEQ	no	BSL
	218-01-9	Chrysene	3.43	4.81	mg/kg	3 / 3	--	4.81	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.597	0.867	mg/kg	3 / 3	--	0.867	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	4.89	6.75	mg/kg	3 / 3	--	6.75	230	TCEQ	no	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	2.2	3.22	mg/kg	3 / 3	--	3.22	4.2	TCEQ	no	BSL	
85-01-8	Phenanthrene	1.55	1.97	mg/kg	3 / 3	--	1.97	170	TCEQ	no	BSL	
129-00-0	Pyrene	4.38	6.12	mg/kg	3 / 3	--	6.12	170	TCEQ	no	BSL	
DU 058	Inorganics											
	7439-92-1	Lead	15.8	17.7	mg/kg	3 / 3	--	17.7	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.112	0.179	mg/kg	3 / 3	--	0.179	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.15	0.251	mg/kg	3 / 3	--	0.251	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.149	0.249	mg/kg	3 / 3	--	0.249	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.122	0.2	mg/kg	3 / 3	--	0.2	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.128	0.209	mg/kg	3 / 3	--	0.209	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0791	0.13	mg/kg	3 / 3	--	0.13	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.075	0.118	mg/kg	3 / 3	--	0.118	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.156	0.245	mg/kg	3 / 3	--	0.245	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.228	0.335	mg/kg	3 / 3	--	0.335	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.1	0.167	mg/kg	3 / 3	--	0.167	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0817	0.111	mg/kg	3 / 3	--	0.111	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.203	0.305	mg/kg	3 / 3	--	0.305	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 060	Inorganics 7439-92-1	Lead	24.3	29.1	mg/kg	3 / 3	--	29.1	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.102	0.135	mg/kg	3 / 3	--	0.135	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.14	0.178	mg/kg	3 / 3	--	0.178	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.137	0.175	mg/kg	3 / 3	--	0.175	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.111	0.145	mg/kg	3 / 3	--	0.145	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.102	0.134	mg/kg	3 / 3	--	0.134	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0714	0.0904	mg/kg	3 / 3	--	0.0904	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0663	0.0835	mg/kg	3 / 3	--	0.0835	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.14	0.184	mg/kg	3 / 3	--	0.184	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.202	0.274	mg/kg	3 / 3	--	0.274	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0854	0.11	mg/kg	3 / 3	--	0.11	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.079	0.11	mg/kg	3 / 3	--	0.11	170	TCEQ	no	BSL
129-00-0	Pyrene	0.183	0.245	mg/kg	3 / 3	--	0.245	170	TCEQ	no	BSL	
DU 063	Inorganics 7439-92-1	Lead	24.6	28.8	mg/kg	3 / 3	--	28.8	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.153	0.175	mg/kg	3 / 3	--	0.175	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.201	0.22	mg/kg	3 / 3	--	0.22	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.199	0.218	mg/kg	3 / 3	--	0.218	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.162	0.177	mg/kg	3 / 3	--	0.177	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.154	0.172	mg/kg	3 / 3	--	0.172	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0706	0.0855	mg/kg	3 / 3	--	0.0855	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0796	0.0921	mg/kg	3 / 3	--	0.0921	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.204	0.233	mg/kg	3 / 3	--	0.233	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.307	0.368	mg/kg	3 / 3	--	0.368	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.113	0.127	mg/kg	3 / 3	--	0.127	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.116	0.149	mg/kg	3 / 3	--	0.149	170	TCEQ	no	BSL
129-00-0	Pyrene	0.273	0.321	mg/kg	3 / 3	--	0.321	170	TCEQ	no	BSL	
DU 064	Inorganics 7439-92-1	Lead	21.5	23.4	mg/kg	3 / 3	--	23.4	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0618	0.0761	mg/kg	3 / 3	--	0.0761	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.595	0.694	mg/kg	3 / 3	--	0.694	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.784	0.967	mg/kg	3 / 3	--	0.967	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.744	0.859	mg/kg	3 / 3	--	0.859	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.588	0.693	mg/kg	3 / 3	--	0.693	180	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 064 Cont.	191-24-2	Benzo(g,h,i)perylene	0.616	0.791	mg/kg	3 / 3	--	0.791	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.399	0.469	mg/kg	3 / 3	--	0.469	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.367	0.425	mg/kg	3 / 3	--	0.425	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.757	0.891	mg/kg	3 / 3	--	0.891	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.129	0.152	mg/kg	3 / 3	--	0.152	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.995	1.21	mg/kg	3 / 3	--	1.21	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.487	0.615	mg/kg	3 / 3	--	0.615	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.341	0.413	mg/kg	3 / 3	--	0.413	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.878	1.05	mg/kg	3 / 3	--	1.05	170	TCEQ	no	BSL
DU 065	Inorganics 7439-92-1	Lead	22.8	26.5	mg/kg	3 / 3	--	26.5	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.201	0.287	mg/kg	3 / 3	--	0.287	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.273	0.387	mg/kg	3 / 3	--	0.387	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.26	0.36	mg/kg	3 / 3	--	0.36	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.21	0.301	mg/kg	3 / 3	--	0.301	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.226	0.324	mg/kg	3 / 3	--	0.324	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.142	0.201	mg/kg	3 / 3	--	0.201	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.125	0.184	mg/kg	3 / 3	--	0.184	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.26	0.372	mg/kg	3 / 3	--	0.372	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0476	0.0652	mg/kg	3 / 3	--	0.0652	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.374	0.556	mg/kg	3 / 3	--	0.556	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.181	0.258	mg/kg	3 / 3	--	0.258	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.121	0.18	mg/kg	3 / 3	--	0.18	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.332	0.492	mg/kg	3 / 3	--	0.492	170	TCEQ	no	BSL
DU 066	Inorganics 7439-92-1	Lead	23.4	33.1	mg/kg	3 / 3	--	33.1	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.219	0.294	mg/kg	3 / 3	--	0.294	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.308	0.385	mg/kg	3 / 3	--	0.385	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.298	0.322	mg/kg	3 / 3	--	0.322	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.23	0.281	mg/kg	3 / 3	--	0.281	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.23	0.302	mg/kg	3 / 3	--	0.302	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.159	0.196	mg/kg	3 / 3	--	0.196	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.152	0.181	mg/kg	3 / 3	--	0.181	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.277	0.38	mg/kg	3 / 3	--	0.38	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0587	0.0604	mg/kg	3 / 3	--	0.0604	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.364	0.574	mg/kg	3 / 3	--	0.574	230	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 066 Cont.	193-39-5	Indeno(1,2,3-cd)pyrene	0.192	0.236	mg/kg	3 / 3	--	0.236	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.13	0.191	mg/kg	3 / 3	--	0.191	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.322	0.508	mg/kg	3 / 3	--	0.508	170	TCEQ	no	BSL
DU 067	Inorganics											
	7439-92-1	Lead	19.3	21.8	mg/kg	3 / 3	--	21.8	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.121	0.202	mg/kg	3 / 3	--	0.202	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.164	0.264	mg/kg	3 / 3	--	0.264	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.166	0.261	mg/kg	3 / 3	--	0.261	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.138	0.213	mg/kg	3 / 3	--	0.213	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.127	0.195	mg/kg	3 / 3	--	0.195	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.089	0.141	mg/kg	3 / 3	--	0.141	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0778	0.123	mg/kg	3 / 3	--	0.123	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.166	0.275	mg/kg	3 / 3	--	0.275	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.224	0.398	mg/kg	3 / 3	--	0.398	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.105	0.161	mg/kg	3 / 3	--	0.161	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0756	0.14	mg/kg	3 / 3	--	0.14	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.205	0.355	mg/kg	3 / 3	--	0.355	170	TCEQ	no	BSL
DU 069	Inorganics											
	7439-92-1	Lead	30.1	38.8	mg/kg	3 / 3	--	38.8	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0643	0.0862	mg/kg	3 / 3	--	0.0862	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.589	0.92	mg/kg	3 / 3	--	0.92	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.774	1.42	mg/kg	3 / 3	--	1.42	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.694	1.29	mg/kg	3 / 3	--	1.29	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.563	1.04	mg/kg	3 / 3	--	1.04	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.635	1.18	mg/kg	3 / 3	--	1.18	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.39	0.692	mg/kg	3 / 3	--	0.692	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.359	0.641	mg/kg	3 / 3	--	0.641	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.765	1.24	mg/kg	3 / 3	--	1.24	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.136	0.25	mg/kg	3 / 3	--	0.25	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	1.1	1.5	mg/kg	3 / 3	--	1.5	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.508	0.959	mg/kg	3 / 3	--	0.959	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.345	0.476	mg/kg	3 / 3	--	0.476	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.977	1.32	mg/kg	3 / 3	--	1.32	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 074	Inorganics 7439-92-1	Lead	23.6	64.7	mg/kg	3 / 3	--	64.7	50	TCEQ	YES	ASL
	PAHs 83-32-9	Acenaphthene	0.0713	0.093	mg/kg	3 / 3	--	0.093	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.259	0.361	mg/kg	3 / 3	--	0.361	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	2.17	2.94	mg/kg	3 / 3	--	2.94	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	2.92	3.87	mg/kg	3 / 3	--	3.87	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	2.74	3.78	mg/kg	3 / 3	--	3.78	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	2.2	3.04	mg/kg	3 / 3	--	3.04	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	2.24	3.07	mg/kg	3 / 3	--	3.07	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	1.42	1.95	mg/kg	3 / 3	--	1.95	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	1.33	1.8	mg/kg	3 / 3	--	1.8	42	TCEQ	no	BSL
	218-01-9	Chrysene	2.77	3.77	mg/kg	3 / 3	--	3.77	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.499	0.678	mg/kg	3 / 3	--	0.678	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	4.2	5.06	mg/kg	3 / 3	--	5.06	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0606	0.0606	mg/kg	1 / 3	0.0732 - 0.0737	0.0606	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	1.84	2.5	mg/kg	3 / 3	--	2.5	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	1.32	1.73	mg/kg	3 / 3	--	1.73	170	TCEQ	no	BSL
	129-00-0	Pyrene	3.79	4.46	mg/kg	3 / 3	--	4.46	170	TCEQ	no	BSL
DU 076	Inorganics 7439-92-1	Lead	17.9	18.9	mg/kg	3 / 3	--	18.9	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.184	0.222	mg/kg	3 / 3	--	0.222	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.247	0.306	mg/kg	3 / 3	--	0.306	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.243	0.304	mg/kg	3 / 3	--	0.304	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.205	0.247	mg/kg	3 / 3	--	0.247	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.196	0.249	mg/kg	3 / 3	--	0.249	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.132	0.161	mg/kg	3 / 3	--	0.161	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.122	0.143	mg/kg	3 / 3	--	0.143	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.257	0.309	mg/kg	3 / 3	--	0.309	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0528	0.0528	mg/kg	1 / 3	0.0716 - 0.0729	0.0528	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.355	0.432	mg/kg	3 / 3	--	0.432	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.16	0.201	mg/kg	3 / 3	--	0.201	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.12	0.139	mg/kg	3 / 3	--	0.139	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.329	0.401	mg/kg	3 / 3	--	0.401	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 077	Inorganics 7439-92-1	Lead	24.1	27.4	mg/kg	3 / 3	--	27.4	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.267	0.357	mg/kg	3 / 3	--	0.357	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.352	0.467	mg/kg	3 / 3	--	0.467	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.323	0.469	mg/kg	3 / 3	--	0.469	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.278	0.375	mg/kg	3 / 3	--	0.375	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.287	0.356	mg/kg	3 / 3	--	0.356	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.181	0.254	mg/kg	3 / 3	--	0.254	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.168	0.231	mg/kg	3 / 3	--	0.231	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.364	0.468	mg/kg	3 / 3	--	0.468	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0595	0.0739	mg/kg	3 / 3	--	0.0739	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.484	0.614	mg/kg	3 / 3	--	0.614	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.225	0.28	mg/kg	3 / 3	--	0.28	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.158	0.203	mg/kg	3 / 3	--	0.203	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.444	0.538	mg/kg	3 / 3	--	0.538	170	TCEQ	no	BSL
DU 080	Inorganics 7439-92-1	Lead	20.1	22.7	mg/kg	3 / 3	--	22.7	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.111	0.127	mg/kg	3 / 3	--	0.127	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.148	0.173	mg/kg	3 / 3	--	0.173	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.158	0.177	mg/kg	3 / 3	--	0.177	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.123	0.144	mg/kg	3 / 3	--	0.144	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.11	0.134	mg/kg	3 / 3	--	0.134	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0785	0.0945	mg/kg	3 / 3	--	0.0945	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.077	0.0862	mg/kg	3 / 3	--	0.0862	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.154	0.171	mg/kg	3 / 3	--	0.171	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.202	0.233	mg/kg	3 / 3	--	0.233	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0898	0.106	mg/kg	3 / 3	--	0.106	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0674	0.0779	mg/kg	3 / 3	--	0.0779	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.183	0.205	mg/kg	3 / 3	--	0.205	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 082	Inorganics 7439-92-1	Lead	25.2	27.4	mg/kg	3 / 3	--	27.4	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.166	0.171	mg/kg	3 / 3	--	0.171	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.214	0.224	mg/kg	3 / 3	--	0.224	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.223	0.235	mg/kg	3 / 3	--	0.235	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.177	0.185	mg/kg	3 / 3	--	0.185	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.156	0.163	mg/kg	3 / 3	--	0.163	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.12	0.122	mg/kg	3 / 3	--	0.122	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.108	0.117	mg/kg	3 / 3	--	0.117	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.224	0.23	mg/kg	3 / 3	--	0.23	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.31	0.325	mg/kg	3 / 3	--	0.325	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.128	0.133	mg/kg	3 / 3	--	0.133	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.103	0.114	mg/kg	3 / 3	--	0.114	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.272	0.281	mg/kg	3 / 3	--	0.281	170	TCEQ	no	BSL
DU 083	Inorganics 7439-92-1	Lead	25.9	28.3	mg/kg	3 / 3	--	28.3	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.142	0.218	mg/kg	3 / 3	--	0.218	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.18	0.257	mg/kg	3 / 3	--	0.257	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.176	0.254	mg/kg	3 / 3	--	0.254	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.142	0.195	mg/kg	3 / 3	--	0.195	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.128	0.174	mg/kg	3 / 3	--	0.174	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0944	0.141	mg/kg	3 / 3	--	0.141	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0875	0.127	mg/kg	3 / 3	--	0.127	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.177	0.269	mg/kg	3 / 3	--	0.269	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.25	0.372	mg/kg	3 / 3	--	0.372	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.101	0.142	mg/kg	3 / 3	--	0.142	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.104	0.143	mg/kg	3 / 3	--	0.143	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.214	0.32	mg/kg	3 / 3	--	0.32	170	TCEQ	no	BSL
DU 084	Inorganics 7439-92-1	Lead	12.9	13.9	mg/kg	3 / 3	--	13.9	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.14	0.188	mg/kg	3 / 3	--	0.188	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.18	0.265	mg/kg	3 / 3	--	0.265	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.175	0.236	mg/kg	3 / 3	--	0.236	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.147	0.203	mg/kg	3 / 3	--	0.203	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.163	0.214	mg/kg	3 / 3	--	0.214	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0912	0.129	mg/kg	3 / 3	--	0.129	3.9	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 084 Cont.	207-08-9	Benzo(k)fluoranthene	0.0833	0.117	mg/kg	3 / 3	--	0.117	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.183	0.258	mg/kg	3 / 3	--	0.258	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.238	0.331	mg/kg	3 / 3	--	0.331	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.12	0.174	mg/kg	3 / 3	--	0.174	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0905	0.129	mg/kg	3 / 3	--	0.129	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.208	0.292	mg/kg	3 / 3	--	0.292	170	TCEQ	no	BSL
DU 085	Inorganics											
	7439-92-1	Lead	14.6	16	mg/kg	3 / 3	--	16	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.104	0.124	mg/kg	3 / 3	--	0.124	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.143	0.161	mg/kg	3 / 3	--	0.161	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.141	0.164	mg/kg	3 / 3	--	0.164	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.118	0.137	mg/kg	3 / 3	--	0.137	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.11	0.129	mg/kg	3 / 3	--	0.129	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0729	0.0868	mg/kg	3 / 3	--	0.0868	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0663	0.079	mg/kg	3 / 3	--	0.079	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.145	0.169	mg/kg	3 / 3	--	0.169	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.205	0.24	mg/kg	3 / 3	--	0.24	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0903	0.105	mg/kg	3 / 3	--	0.105	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0698	0.0881	mg/kg	3 / 3	--	0.0881	170	TCEQ	no	BSL
129-00-0	Pyrene	0.186	0.216	mg/kg	3 / 3	--	0.216	170	TCEQ	no	BSL	
DU 087	Inorganics											
	7439-92-1	Lead	19.7	21.8	mg/kg	3 / 3	--	21.8	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.111	0.136	mg/kg	3 / 3	--	0.136	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.152	0.19	mg/kg	3 / 3	--	0.19	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.151	0.182	mg/kg	3 / 3	--	0.182	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.13	0.159	mg/kg	3 / 3	--	0.159	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.133	0.161	mg/kg	3 / 3	--	0.161	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.081	0.0958	mg/kg	3 / 3	--	0.0958	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0726	0.0908	mg/kg	3 / 3	--	0.0908	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.156	0.194	mg/kg	3 / 3	--	0.194	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.218	0.259	mg/kg	3 / 3	--	0.259	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.105	0.127	mg/kg	3 / 3	--	0.127	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0726	0.0839	mg/kg	3 / 3	--	0.0839	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.198	0.238	mg/kg	3 / 3	--	0.238	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 095	Inorganics 7439-92-1	Lead	12.3	23.1	mg/kg	3 / 3	--	23.1	50	TCEQ	no	BSL
	PAHs 206-44-0	Fluoranthene	0.0529	0.0557	mg/kg	2 / 3	0.0747 - 0.0747	0.0557	230	TCEQ	no	BSL
DU 097	Inorganics 7439-92-1	Lead	25.8	31.6	mg/kg	3 / 3	--	31.6	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.0962	0.128	mg/kg	3 / 3	--	0.128	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.126	0.164	mg/kg	3 / 3	--	0.164	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.135	0.169	mg/kg	3 / 3	--	0.169	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.103	0.131	mg/kg	3 / 3	--	0.131	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0875	0.12	mg/kg	3 / 3	--	0.12	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.071	0.0869	mg/kg	3 / 3	--	0.0869	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0652	0.0805	mg/kg	3 / 3	--	0.0805	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.125	0.168	mg/kg	3 / 3	--	0.168	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.165	0.219	mg/kg	3 / 3	--	0.219	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0711	0.0968	mg/kg	3 / 3	--	0.0968	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.061	0.0771	mg/kg	3 / 3	--	0.0771	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.145	0.194	mg/kg	3 / 3	--	0.194	170	TCEQ	no	BSL
DU 100	Inorganics 7439-92-1	Lead	15	23.1	mg/kg	3 / 3	--	23.1	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.149	0.2	mg/kg	3 / 3	--	0.2	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.2	0.263	mg/kg	3 / 3	--	0.263	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.197	0.26	mg/kg	3 / 3	--	0.26	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.162	0.214	mg/kg	3 / 3	--	0.214	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.169	0.223	mg/kg	3 / 3	--	0.223	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0939	0.123	mg/kg	3 / 3	--	0.123	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0952	0.129	mg/kg	3 / 3	--	0.129	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.192	0.254	mg/kg	3 / 3	--	0.254	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.279	0.378	mg/kg	3 / 3	--	0.378	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.164	0.211	mg/kg	3 / 3	--	0.211	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0927	0.132	mg/kg	3 / 3	--	0.132	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.247	0.329	mg/kg	3 / 3	--	0.329	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 103	Inorganics											
	7439-92-1	Lead	20.6	30.7	mg/kg	3 / 3	--	30.7	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0717	0.181	mg/kg	3 / 3	--	0.181	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0993	0.209	mg/kg	3 / 3	--	0.209	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0985	0.199	mg/kg	3 / 3	--	0.199	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0837	0.163	mg/kg	3 / 3	--	0.163	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0843	0.167	mg/kg	3 / 3	--	0.167	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.05	0.1	mg/kg	3 / 3	--	0.1	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0539	0.106	mg/kg	3 / 3	--	0.106	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0878	0.207	mg/kg	3 / 3	--	0.207	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.122	0.387	mg/kg	3 / 3	--	0.387	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0827	0.167	mg/kg	3 / 3	--	0.167	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.06	0.168	mg/kg	2 / 3	0.0723 - 0.0723	0.168	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.109	0.331	mg/kg	3 / 3	--	0.331	170	TCEQ	no	BSL	
DU 105	Inorganics											
	7439-92-1	Lead	18.1	18.2	mg/kg	3 / 3	--	18.2	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0898	0.105	mg/kg	3 / 3	--	0.105	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.121	0.143	mg/kg	3 / 3	--	0.143	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.123	0.14	mg/kg	3 / 3	--	0.14	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.099	0.114	mg/kg	3 / 3	--	0.114	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0968	0.112	mg/kg	3 / 3	--	0.112	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0647	0.0751	mg/kg	3 / 3	--	0.0751	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0589	0.0706	mg/kg	3 / 3	--	0.0706	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.126	0.146	mg/kg	3 / 3	--	0.146	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.178	0.207	mg/kg	3 / 3	--	0.207	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0797	0.0932	mg/kg	3 / 3	--	0.0932	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.0615	0.0713	mg/kg	3 / 3	--	0.0713	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.161	0.188	mg/kg	3 / 3	--	0.188	170	TCEQ	no	BSL	

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 106	Inorganics											
	7439-92-1	Lead	32.4	34.9	mg/kg	3 / 3	--	34.9	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.177	0.231	mg/kg	3 / 3	--	0.231	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.237	0.291	mg/kg	3 / 3	--	0.291	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.241	0.289	mg/kg	3 / 3	--	0.289	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.197	0.23	mg/kg	3 / 3	--	0.23	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.186	0.222	mg/kg	3 / 3	--	0.222	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.13	0.161	mg/kg	3 / 3	--	0.161	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.12	0.147	mg/kg	3 / 3	--	0.147	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.233	0.292	mg/kg	3 / 3	--	0.292	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0479	0.0479	mg/kg	1 / 3	0.0722 - 0.0727	0.0479	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.291	0.412	mg/kg	3 / 3	--	0.412	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.147	0.179	mg/kg	3 / 3	--	0.179	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0952	0.145	mg/kg	3 / 3	--	0.145	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.261	0.36	mg/kg	3 / 3	--	0.36	170	TCEQ	no	BSL
DU 110	Inorganics											
	7439-92-1	Lead	16.5	18.8	mg/kg	3 / 3	--	18.8	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0507	0.0507	mg/kg	1 / 3	0.0726 - 0.0746	0.0507	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0554	0.0672	mg/kg	3 / 3	--	0.0672	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0573	0.0716	mg/kg	3 / 3	--	0.0716	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0551	0.0572	mg/kg	2 / 3	0.0746 - 0.0746	0.0572	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.05	0.062	mg/kg	3 / 3	--	0.062	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.053	0.0665	mg/kg	3 / 3	--	0.0665	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0777	0.0932	mg/kg	3 / 3	--	0.0932	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0682	0.0816	mg/kg	3 / 3	--	0.0816	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 111	Inorganics											
	7439-92-1	Lead	24.4	28.1	mg/kg	3 / 3	--	28.1	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0929	0.105	mg/kg	3 / 3	--	0.105	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.126	0.146	mg/kg	3 / 3	--	0.146	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.13	0.148	mg/kg	3 / 3	--	0.148	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.109	0.123	mg/kg	3 / 3	--	0.123	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0947	0.11	mg/kg	3 / 3	--	0.11	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0708	0.0799	mg/kg	3 / 3	--	0.0799	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0624	0.0694	mg/kg	3 / 3	--	0.0694	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.131	0.148	mg/kg	3 / 3	--	0.148	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.172	0.202	mg/kg	3 / 3	--	0.202	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0808	0.0898	mg/kg	3 / 3	--	0.0898	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0611	0.0695	mg/kg	3 / 3	--	0.0695	170	TCEQ	no	BSL
129-00-0	Pyrene	0.16	0.184	mg/kg	3 / 3	--	0.184	170	TCEQ	no	BSL	
DU 115	Inorganics											
	7439-92-1	Lead	16.9	21.9	mg/kg	3 / 3	--	21.9	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.083	0.108	mg/kg	3 / 3	--	0.108	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.108	0.136	mg/kg	3 / 3	--	0.136	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.099	0.116	mg/kg	3 / 3	--	0.116	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0891	0.118	mg/kg	3 / 3	--	0.118	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.101	0.152	mg/kg	3 / 3	--	0.152	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0584	0.0675	mg/kg	3 / 3	--	0.0675	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0499	0.0551	mg/kg	3 / 3	--	0.0551	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.11	0.122	mg/kg	3 / 3	--	0.122	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.146	0.153	mg/kg	3 / 3	--	0.153	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0787	0.115	mg/kg	3 / 3	--	0.115	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.056	0.0574	mg/kg	3 / 3	--	0.0574	170	TCEQ	no	BSL
129-00-0	Pyrene	0.135	0.146	mg/kg	3 / 3	--	0.146	170	TCEQ	no	BSL	
DU 118	Inorganics											
	7439-92-1	Lead	14.8	16.4	mg/kg	3 / 3	--	16.4	50	TCEQ	no	BSL
	PAHs											
	50-32-8	Benzo(a)pyrene	0.0513	0.0532	mg/kg	2 / 3	0.083 - 0.083	0.0532	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.05	0.0534	mg/kg	2 / 3	0.083 - 0.083	0.0534	4.1	TCEQ	no	BSL
	218-01-9	Chrysene	0.0497	0.0528	mg/kg	2 / 3	0.083 - 0.083	0.0528	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0689	0.0812	mg/kg	3 / 3	--	0.0812	230	TCEQ	no	BSL
129-00-0	Pyrene	0.0627	0.0727	mg/kg	3 / 3	--	0.0727	170	TCEQ	no	BSL	

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 120	Inorganics 7439-92-1	Lead	12.8	15.7	mg/kg	3 / 3	--	15.7	50	TCEQ	no	BSL
	PAHs 206-44-0	Fluoranthene	0.049	0.049	mg/kg	1 / 3	0.0736 - 0.0795	0.049	230	TCEQ	no	BSL
DU 125	Inorganics 7439-92-1	Lead	25.7	26.3	mg/kg	3 / 3	--	26.3	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.0693	0.0872	mg/kg	3 / 3	--	0.0872	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0924	0.116	mg/kg	3 / 3	--	0.116	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0984	0.117	mg/kg	3 / 3	--	0.117	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0757	0.0941	mg/kg	3 / 3	--	0.0941	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0698	0.0864	mg/kg	3 / 3	--	0.0864	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0527	0.0615	mg/kg	3 / 3	--	0.0615	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0496	0.058	mg/kg	3 / 3	--	0.058	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0948	0.119	mg/kg	3 / 3	--	0.119	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.129	0.167	mg/kg	3 / 3	--	0.167	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0582	0.0675	mg/kg	3 / 3	--	0.0675	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0607	0.0607	mg/kg	1 / 3	0.0735 - 0.0737	0.0607	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.116	0.146	mg/kg	3 / 3	--	0.146	170	TCEQ	no	BSL
DU 129	Inorganics 7439-92-1	Lead	14.7	22.6	mg/kg	3 / 3	--	22.6	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.0554	0.063	mg/kg	2 / 3	0.0863 - 0.0863	0.063	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0742	0.0843	mg/kg	3 / 3	--	0.0843	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0784	0.0911	mg/kg	3 / 3	--	0.0911	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0613	0.0713	mg/kg	3 / 3	--	0.0713	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0593	0.065	mg/kg	3 / 3	--	0.065	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0726	0.0848	mg/kg	3 / 3	--	0.0848	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0913	0.119	mg/kg	3 / 3	--	0.119	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0816	0.104	mg/kg	3 / 3	--	0.104	170	TCEQ	no	BSL
DU 132	Inorganics 7439-92-1	Lead	16.6	19.3	mg/kg	3 / 3	--	19.3	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.0692	0.0779	mg/kg	3 / 3	--	0.0779	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0945	0.103	mg/kg	3 / 3	--	0.103	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0944	0.1	mg/kg	3 / 3	--	0.1	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0742	0.0796	mg/kg	3 / 3	--	0.0796	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0737	0.0824	mg/kg	3 / 3	--	0.0824	180	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 132 Cont.	205-82-3	Benzo(j)fluoranthene	0.0522	0.0522	mg/kg	1 / 3	0.0743 - 0.0827	0.0522	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0556	0.0583	mg/kg	2 / 3	0.0827 - 0.0827	0.0583	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0918	0.0967	mg/kg	3 / 3	--	0.0967	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.111	0.129	mg/kg	3 / 3	--	0.129	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0595	0.0676	mg/kg	3 / 3	--	0.0676	4.2	TCEQ	no	BSL
	129-00-0	Pyrene	0.1	0.114	mg/kg	3 / 3	--	0.114	170	TCEQ	no	BSL
DU 133	Inorganics											
	7439-92-1	Lead	11.7	15.9	mg/kg	3 / 3	--	15.9	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0486	0.0486	mg/kg	1 / 3	0.0725 - 0.073	0.0486	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0534	0.0656	mg/kg	3 / 3	--	0.0656	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0581	0.0662	mg/kg	3 / 3	--	0.0662	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.05	0.0508	mg/kg	2 / 3	0.0725 - 0.0725	0.0508	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0529	0.0554	mg/kg	2 / 3	0.0725 - 0.0725	0.0554	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0542	0.0629	mg/kg	2 / 3	0.0725 - 0.0725	0.0629	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0629	0.08	mg/kg	3 / 3	--	0.08	230	TCEQ	no	BSL
DU 134	193-39-5	Indeno(1,2,3-cd)pyrene	0.0513	0.0522	mg/kg	2 / 3	0.0725 - 0.0725	0.0522	4.2	TCEQ	no	BSL
	129-00-0	Pyrene	0.0562	0.0721	mg/kg	3 / 3	--	0.0721	170	TCEQ	no	BSL
	Inorganics											
	7439-92-1	Lead	33.3	40.3	mg/kg	3 / 3	--	40.3	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.375	0.441	mg/kg	3 / 3	--	0.441	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.501	0.564	mg/kg	3 / 3	--	0.564	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.48	0.57	mg/kg	3 / 3	--	0.57	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.383	0.454	mg/kg	3 / 3	--	0.454	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.421	0.488	mg/kg	3 / 3	--	0.488	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.261	0.303	mg/kg	3 / 3	--	0.303	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.243	0.274	mg/kg	3 / 3	--	0.274	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.48	0.561	mg/kg	3 / 3	--	0.561	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0925	0.108	mg/kg	3 / 3	--	0.108	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.636	0.775	mg/kg	3 / 3	--	0.775	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.34	0.392	mg/kg	3 / 3	--	0.392	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.215	0.26	mg/kg	3 / 3	--	0.26	170	TCEQ	no	BSL
129-00-0	Pyrene	0.559	0.677	mg/kg	3 / 3	--	0.677	170	TCEQ	no	BSL	

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 140	Inorganics 7439-92-1	Lead	23.5	35.2	mg/kg	3 / 3	--	35.2	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.315	0.444	mg/kg	3 / 3	--	0.444	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.42	0.659	mg/kg	3 / 3	--	0.659	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.406	0.618	mg/kg	3 / 3	--	0.618	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.331	0.494	mg/kg	3 / 3	--	0.494	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.381	0.55	mg/kg	3 / 3	--	0.55	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.218	0.333	mg/kg	3 / 3	--	0.333	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.201	0.304	mg/kg	3 / 3	--	0.304	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.394	0.581	mg/kg	3 / 3	--	0.581	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0796	0.117	mg/kg	3 / 3	--	0.117	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.565	0.711	mg/kg	3 / 3	--	0.711	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.298	0.45	mg/kg	3 / 3	--	0.45	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.225	0.247	mg/kg	3 / 3	--	0.247	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.486	0.639	mg/kg	3 / 3	--	0.639	170	TCEQ	no	BSL
DU 143	Inorganics 7439-92-1	Lead	16.4	17	mg/kg	3 / 3	--	17	50	TCEQ	no	BSL
	PAHs 206-44-0	Fluoranthene	0.0705	0.0705	mg/kg	1 / 3	0.0888 - 0.0929	0.0705	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0627	0.0627	mg/kg	1 / 3	0.0888 - 0.0929	0.0627	170	TCEQ	no	BSL
DU 146	Inorganics 7439-92-1	Lead	30.3	34.6	mg/kg	3 / 3	--	34.6	50	TCEQ	no	BSL
DU 148	Inorganics 7439-92-1	Lead	16.5	18.9	mg/kg	3 / 3	--	18.9	50	TCEQ	no	BSL
	PAHs 50-32-8	Benzo(a)pyrene	0.0508	0.059	mg/kg	3 / 3	--	0.059	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0518	0.0588	mg/kg	3 / 3	--	0.0588	4.1	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0488	0.0488	mg/kg	1 / 3	0.0741 - 0.0746	0.0488	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.053	0.0566	mg/kg	2 / 3	0.0746 - 0.0746	0.0566	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0648	0.074	mg/kg	3 / 3	--	0.074	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0594	0.0655	mg/kg	3 / 3	--	0.0655	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 150	Inorganics											
	7439-92-1	Lead	10.3	11.9	mg/kg	3 / 3	--	11.9	50	TCEQ	no	BSL
	PAHs											
	206-44-0	Fluoranthene	0.0529	0.057	mg/kg	3 / 3	--	0.057	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0491	0.0517	mg/kg	2 / 3	0.078 - 0.078	0.0517	170	TCEQ	no	BSL
DU 151	Inorganics											
	7439-92-1	Lead	28.7	31.7	mg/kg	3 / 3	--	31.7	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.104	0.111	mg/kg	3 / 3	--	0.111	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.142	0.144	mg/kg	3 / 3	--	0.144	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.139	0.149	mg/kg	3 / 3	--	0.149	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.115	0.12	mg/kg	3 / 3	--	0.12	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0951	0.102	mg/kg	3 / 3	--	0.102	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0769	0.0813	mg/kg	3 / 3	--	0.0813	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0671	0.0741	mg/kg	3 / 3	--	0.0741	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.14	0.151	mg/kg	3 / 3	--	0.151	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.167	0.201	mg/kg	3 / 3	--	0.201	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0779	0.0816	mg/kg	3 / 3	--	0.0816	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0702	0.0735	mg/kg	2 / 3	0.088 - 0.088	0.0735	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.153	0.173	mg/kg	3 / 3	--	0.173	170	TCEQ	no	BSL
DU 154	Inorganics											
	7439-92-1	Lead	16.9	17.8	mg/kg	3 / 3	--	17.8	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0809	0.0983	mg/kg	3 / 3	--	0.0983	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.109	0.13	mg/kg	3 / 3	--	0.13	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.112	0.126	mg/kg	3 / 3	--	0.126	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.092	0.111	mg/kg	3 / 3	--	0.111	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0904	0.112	mg/kg	3 / 3	--	0.112	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0587	0.0693	mg/kg	3 / 3	--	0.0693	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0516	0.0613	mg/kg	3 / 3	--	0.0613	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.115	0.137	mg/kg	3 / 3	--	0.137	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.158	0.189	mg/kg	3 / 3	--	0.189	230	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 154 Cont.	193-39-5	Indeno(1,2,3-cd)pyrene	0.0711	0.0845	mg/kg	3 / 3	--	0.0845	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0549	0.0676	mg/kg	3 / 3	--	0.0676	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.139	0.167	mg/kg	3 / 3	--	0.167	170	TCEQ	no	BSL
DU 155	Inorganics											
	7439-92-1	Lead	15.7	18	mg/kg	3 / 3	--	18	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0567	0.148	mg/kg	3 / 3	--	0.148	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0766	0.189	mg/kg	3 / 3	--	0.189	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0791	0.182	mg/kg	3 / 3	--	0.182	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0654	0.144	mg/kg	3 / 3	--	0.144	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0636	0.134	mg/kg	3 / 3	--	0.134	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0474	0.1	mg/kg	2 / 3	0.0714 - 0.0714	0.1	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0515	0.103	mg/kg	2 / 3	0.0714 - 0.0714	0.103	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0795	0.183	mg/kg	3 / 3	--	0.183	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.101	0.251	mg/kg	3 / 3	--	0.251	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0534	0.112	mg/kg	3 / 3	--	0.112	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0936	0.0936	mg/kg	1 / 3	0.0703 - 0.0714	0.0936	170	TCEQ	no	BSL
129-00-0	Pyrene	0.0875	0.215	mg/kg	3 / 3	--	0.215	170	TCEQ	no	BSL	
DU 156	Inorganics											
	7439-92-1	Lead	21.2	25.8	mg/kg	3 / 3	--	25.8	50	TCEQ	no	BSL
	PAHs											
	50-32-8	Benzo(a)pyrene	0.0514	0.06	mg/kg	3 / 3	--	0.06	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0508	0.0584	mg/kg	3 / 3	--	0.0584	4.1	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0503	0.0524	mg/kg	2 / 3	0.074 - 0.074	0.0524	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0533	0.0568	mg/kg	3 / 3	--	0.0568	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0625	0.0695	mg/kg	3 / 3	--	0.0695	230	TCEQ	no	BSL
DU 166	129-00-0	Pyrene	0.0552	0.0616	mg/kg	3 / 3	--	0.0616	170	TCEQ	no	BSL
	Inorganics											
DU 168	7439-92-1	Lead	8.56	9.02	mg/kg	3 / 3	--	9.02	50	TCEQ	no	BSL
	Inorganics											
	7439-92-1	Lead	21.5	22.4	mg/kg	3 / 3	--	22.4	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.133	0.189	mg/kg	3 / 3	--	0.189	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.18	0.245	mg/kg	3 / 3	--	0.245	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.182	0.246	mg/kg	3 / 3	--	0.246	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.142	0.196	mg/kg	3 / 3	--	0.196	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.148	0.201	mg/kg	3 / 3	--	0.201	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0945	0.13	mg/kg	3 / 3	--	0.13	3.9	TCEQ	no	BSL
207-08-9	Benzo(k)fluoranthene	0.0862	0.121	mg/kg	3 / 3	--	0.121	42	TCEQ	no	BSL	

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 168 Cont.	218-01-9	Chrysene	0.17	0.24	mg/kg	3 / 3	--	0.24	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.223	0.338	mg/kg	3 / 3	--	0.338	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.119	0.163	mg/kg	3 / 3	--	0.163	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0679	0.107	mg/kg	3 / 3	--	0.107	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.203	0.299	mg/kg	3 / 3	--	0.299	170	TCEQ	no	BSL
DU 172	Inorganics 7439-92-1	Lead	11.4	12.5	mg/kg	3 / 3	--	12.5	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.0539	0.165	mg/kg	3 / 3	--	0.165	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0714	0.203	mg/kg	3 / 3	--	0.203	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0768	0.214	mg/kg	3 / 3	--	0.214	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0596	0.18	mg/kg	3 / 3	--	0.18	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0655	0.174	mg/kg	3 / 3	--	0.174	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.049	0.106	mg/kg	2 / 3	0.0746 - 0.0746	0.106	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0525	0.117	mg/kg	2 / 3	0.0746 - 0.0746	0.117	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0639	0.188	mg/kg	3 / 3	--	0.188	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0911	0.264	mg/kg	3 / 3	--	0.264	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.064	0.176	mg/kg	3 / 3	--	0.176	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0475	0.0978	mg/kg	2 / 3	0.0746 - 0.0746	0.0978	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0856	0.24	mg/kg	3 / 3	--	0.24	170	TCEQ	no	BSL
DU 176	Inorganics 7439-92-1	Lead	19.7	21	mg/kg	3 / 3	--	21	50	TCEQ	no	BSL
	PAHs 50-32-8	Benzo(a)pyrene	0.0527	0.0575	mg/kg	3 / 3	--	0.0575	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0512	0.0578	mg/kg	3 / 3	--	0.0578	4.1	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0485	0.0485	mg/kg	1 / 3	0.0736 - 0.0737	0.0485	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0514	0.0556	mg/kg	3 / 3	--	0.0556	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0638	0.0734	mg/kg	3 / 3	--	0.0734	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0553	0.0639	mg/kg	3 / 3	--	0.0639	170	TCEQ	no	BSL
	DU 183	Inorganics 7439-92-1	Lead	10.2	11.9	mg/kg	3 / 3	--	11.9	50	TCEQ	no
PAHs 56-55-3		Benzo(a)anthracene	0.0634	0.0634	mg/kg	1 / 3	0.0711 - 0.0723	0.0634	4.1	TCEQ	no	BSL
50-32-8		Benzo(a)pyrene	0.05	0.075	mg/kg	3 / 3	--	0.075	0.41	TCEQ	no	BSL
205-99-2		Benzo(b)fluoranthene	0.0612	0.107	mg/kg	3 / 3	--	0.107	4.1	TCEQ	no	BSL
192-97-2		Benzo(e)pyrene	0.0581	0.0765	mg/kg	2 / 3	0.0723 - 0.0723	0.0765	180	TCEQ	no	BSL
191-24-2		Benzo(g,h,i)perylene	0.0537	0.0537	mg/kg	1 / 3	0.0711 - 0.0723	0.0537	180	TCEQ	no	BSL
205-82-3		Benzo(j)fluoranthene	0.0554	0.0554	mg/kg	1 / 3	0.0711 - 0.0723	0.0554	3.9	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 183 Cont.	207-08-9	Benzo(k)fluoranthene	0.0522	0.0522	mg/kg	1 / 3	0.0711 - 0.0723	0.0522	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0571	0.0957	mg/kg	3 / 3	--	0.0957	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0581	0.0812	mg/kg	3 / 3	--	0.0812	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0596	0.0873	mg/kg	3 / 3	--	0.0873	170	TCEQ	no	BSL
DU 187	Inorganics 7439-92-1	Lead	11.9	14.2	mg/kg	3 / 3	--	14.2	50	TCEQ	no	BSL
	PAHs 206-44-0	Fluoranthene	0.0554	0.0628	mg/kg	3 / 3	--	0.0628	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0487	0.054	mg/kg	3 / 3	--	0.054	170	TCEQ	no	BSL
DU 189	Inorganics 7439-92-1	Lead	12.7	17.7	mg/kg	3 / 3	--	17.7	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.053	0.053	mg/kg	1 / 3	0.0733 - 0.0748	0.053	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0505	0.0721	mg/kg	2 / 3	0.0748 - 0.0748	0.0721	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.052	0.0721	mg/kg	2 / 3	0.0748 - 0.0748	0.0721	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0614	0.0614	mg/kg	1 / 3	0.0733 - 0.0748	0.0614	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0649	0.0649	mg/kg	1 / 3	0.0733 - 0.0748	0.0649	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0734	0.0734	mg/kg	1 / 3	0.0733 - 0.0748	0.0734	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.06	0.0994	mg/kg	3 / 3	--	0.0994	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0508	0.0508	mg/kg	1 / 3	0.0733 - 0.0748	0.0508	4.2	TCEQ	no	BSL
	129-00-0	Pyrene	0.0542	0.0873	mg/kg	3 / 3	--	0.0873	170	TCEQ	no	BSL
DU 190	Inorganics 7439-92-1	Lead	9.04	9.45	mg/kg	3 / 3	--	9.45	50	TCEQ	no	BSL
DU 224	Inorganics 7439-92-1	Lead	9.75	10.4	mg/kg	3 / 3	--	10.4	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.051	0.051	mg/kg	1 / 3	0.0701 - 0.0743	0.051	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0623	0.066	mg/kg	3 / 3	--	0.066	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0653	0.0703	mg/kg	3 / 3	--	0.0703	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0548	0.0574	mg/kg	3 / 3	--	0.0574	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0521	0.0526	mg/kg	3 / 3	--	0.0526	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0692	0.0742	mg/kg	3 / 3	--	0.0742	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.094	0.108	mg/kg	3 / 3	--	0.108	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0864	0.1	mg/kg	3 / 3	--	0.1	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 464	Inorganics 7439-92-1	Lead	21.3	25.9	mg/kg	3 / 3	--	25.9	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.231	0.355	mg/kg	3 / 3	--	0.355	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.306	0.467	mg/kg	3 / 3	--	0.467	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.309	0.447	mg/kg	3 / 3	--	0.447	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.255	0.38	mg/kg	3 / 3	--	0.38	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.242	0.363	mg/kg	3 / 3	--	0.363	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.162	0.236	mg/kg	3 / 3	--	0.236	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.149	0.22	mg/kg	3 / 3	--	0.22	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.325	0.483	mg/kg	3 / 3	--	0.483	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0751	0.0751	mg/kg	1 / 3	0.106 - 0.116	0.0751	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.48	0.694	mg/kg	3 / 3	--	0.694	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.193	0.29	mg/kg	3 / 3	--	0.29	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.164	0.24	mg/kg	3 / 3	--	0.24	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.425	0.602	mg/kg	3 / 3	--	0.602	170	TCEQ	no	BSL
DU 465	Inorganics 7439-92-1	Lead	20.8	23.3	mg/kg	2 / 2	--	23.3	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0518	0.0609	mg/kg	2 / 2	--	0.0609	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.389	0.438	mg/kg	2 / 2	--	0.438	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.493	0.561	mg/kg	2 / 2	--	0.561	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.467	0.536	mg/kg	2 / 2	--	0.536	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.391	0.444	mg/kg	2 / 2	--	0.444	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.397	0.459	mg/kg	2 / 2	--	0.459	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.247	0.284	mg/kg	2 / 2	--	0.284	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.227	0.261	mg/kg	2 / 2	--	0.261	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.52	0.579	mg/kg	2 / 2	--	0.579	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0828	0.0921	mg/kg	2 / 2	--	0.0921	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.716	0.792	mg/kg	2 / 2	--	0.792	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.311	0.355	mg/kg	2 / 2	--	0.355	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.248	0.29	mg/kg	2 / 2	--	0.29	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.619	0.695	mg/kg	2 / 2	--	0.695	170	TCEQ	no	BSL

TABLE 2.1
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
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Footnotes:

(1) Maximum detected concentration.

(2) Screening levels are Texas Commission on Environmental Quality (TCEQ) TRRP Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area multiplied by 0.1.

(3) "ASL" = maximum concentration measured in soil is above screening level, "BSL" = maximum concentration measured in soil is below screening level.

(4) The $^{Tot}Soil_{Cone}$ PCL for benzo(j)fluoranthene in the March 2018 TRRP PCL tables is based on the outdated toxicity values for benzo(a)pyrene and a relative potency factor (RPF) of 0.1. USEPA updated benzo(a)pyrene's cancer slope factor and inhalation unit risk in January 2017 to $1 \text{ (mg/kg-day)}^{-1}$ and $0.0006 \text{ (}\mu\text{g/m}^3\text{)}^{-1}$, respectively. The current toxicity values and a RPF of 0.1 were used to calculate a Tier 1 PCL (30 acre source area) of 39 mg/kg for benzo(j)fluoranthene.

Abbreviations:

mg/kg = milligram per kilogram

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Stratification Soil (0-6 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 003	Inorganics											
	7439-92-1	Lead	13.9	28.6	mg/kg	4 / 4	--	28.6	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0589	0.12	mg/kg	2 / 4	0.0786 - 0.0838	0.12	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.112	0.798	mg/kg	4 / 4	--	0.798	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.151	0.928	mg/kg	4 / 4	--	0.928	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.146	0.907	mg/kg	4 / 4	--	0.907	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.123	0.727	mg/kg	4 / 4	--	0.727	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.124	0.677	mg/kg	4 / 4	--	0.677	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0777	0.492	mg/kg	4 / 4	--	0.492	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0771	0.466	mg/kg	4 / 4	--	0.466	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.143	0.964	mg/kg	4 / 4	--	0.964	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.116	0.154	mg/kg	3 / 4	0.0838 - 0.0838	0.154	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.179	1.46	mg/kg	4 / 4	--	1.46	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.103	0.545	mg/kg	4 / 4	--	0.545	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0646	0.617	mg/kg	4 / 4	--	0.617	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.163	1.22	mg/kg	4 / 4	--	1.22	170	TCEQ	no	BSL
DU 009	Inorganics											
	7439-92-1	Lead	12.3	135	mg/kg	5 / 5	--	135	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.378	0.683	mg/kg	2 / 5	0.085 - 0.0978	0.683	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0681	1.85	mg/kg	4 / 5	0.0913 - 0.0913	1.85	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.14	18.5	mg/kg	5 / 5	--	18.5	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	0.185	23.2	mg/kg	5 / 5	--	23.2	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.177	22.4	mg/kg	5 / 5	--	22.4	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	0.144	17.6	mg/kg	5 / 5	--	17.6	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.146	16.8	mg/kg	5 / 5	--	16.8	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0902	11.9	mg/kg	5 / 5	--	11.9	3.9	TCEQ	YES	ASL
	207-08-9	Benzo(k)fluoranthene	0.0924	11.4	mg/kg	5 / 5	--	11.4	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.176	23	mg/kg	5 / 5	--	23	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.143	4.04	mg/kg	4 / 5	0.0913 - 0.0913	4.04	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.222	27	mg/kg	5 / 5	--	27	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.137	0.229	mg/kg	2 / 5	0.085 - 0.0978	0.229	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.118	14.1	mg/kg	5 / 5	--	14.1	4.2	TCEQ	YES	ASL
	85-01-8	Phenanthrene	0.0809	9.79	mg/kg	5 / 5	--	9.79	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.198	23.3	mg/kg	5 / 5	--	23.3	170	TCEQ	no	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Stratification Soil (0-6 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 038	Inorganics											
	7439-92-1	Lead	9.95	13.9	mg/kg	4 / 4	--	13.9	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0991	0.243	mg/kg	2 / 4	0.0842 - 0.087	0.243	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0632	0.333	mg/kg	3 / 4	0.087 - 0.087	0.333	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0653	0.32	mg/kg	3 / 4	0.087 - 0.087	0.32	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.12	0.255	mg/kg	2 / 4	0.0842 - 0.087	0.255	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0569	0.277	mg/kg	3 / 4	0.087 - 0.087	0.277	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0789	0.173	mg/kg	2 / 4	0.0842 - 0.087	0.173	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0811	0.174	mg/kg	2 / 4	0.0842 - 0.087	0.174	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0641	0.312	mg/kg	3 / 4	0.087 - 0.087	0.312	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0705	0.0705	mg/kg	1 / 4	0.0842 - 0.087	0.0705	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0602	0.427	mg/kg	4 / 4	--	0.427	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.115	0.228	mg/kg	2 / 4	0.0842 - 0.087	0.228	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.137	0.137	mg/kg	1 / 4	0.0842 - 0.087	0.137	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0768	0.387	mg/kg	3 / 4	0.087 - 0.087	0.387	170	TCEQ	no	BSL
DU 044	Inorganics											
	7439-92-1	Lead	15.7	33.5	mg/kg	5 / 5	--	33.5	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.116	0.136	mg/kg	2 / 5	0.0863 - 0.0945	0.136	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.148	0.761	mg/kg	3 / 5	0.0863 - 0.0945	0.761	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.132	3.39	mg/kg	5 / 5	--	3.39	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.167	4.17	mg/kg	5 / 5	--	4.17	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.164	3.85	mg/kg	5 / 5	--	3.85	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.133	3.14	mg/kg	5 / 5	--	3.14	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.132	2.97	mg/kg	5 / 5	--	2.97	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0835	2.05	mg/kg	5 / 5	--	2.05	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0832	1.97	mg/kg	5 / 5	--	1.97	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.162	3.81	mg/kg	5 / 5	--	3.81	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.153	0.649	mg/kg	3 / 5	0.0863 - 0.0945	0.649	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.236	7.66	mg/kg	5 / 5	--	7.66	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.111	2.45	mg/kg	5 / 5	--	2.45	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0869	3.92	mg/kg	5 / 5	--	3.92	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.201	6.02	mg/kg	5 / 5	--	6.02	170	TCEQ	no	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Stratification Soil (0-6 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 066	Inorganics											
	7439-92-1	Lead	23.8	67.2	mg/kg	5 / 5	--	67.2	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0642	0.0642	mg/kg	1 / 5	0.0828 - 0.0959	0.0642	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.13	0.197	mg/kg	2 / 5	0.0828 - 0.0959	0.197	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.356	1.47	mg/kg	5 / 5	--	1.47	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.456	1.81	mg/kg	5 / 5	--	1.81	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.448	1.69	mg/kg	5 / 5	--	1.69	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.375	1.38	mg/kg	5 / 5	--	1.38	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.375	1.45	mg/kg	5 / 5	--	1.45	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.235	0.923	mg/kg	5 / 5	--	0.923	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.231	0.872	mg/kg	5 / 5	--	0.872	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.454	1.77	mg/kg	5 / 5	--	1.77	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0818	0.324	mg/kg	5 / 5	--	0.324	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.652	2.74	mg/kg	5 / 5	--	2.74	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.315	1.23	mg/kg	5 / 5	--	1.23	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.23	1.04	mg/kg	5 / 5	--	1.04	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.562	2.31	mg/kg	5 / 5	--	2.31	170	TCEQ	no	BSL
DU 132	Inorganics											
	7439-92-1	Lead	22.1	411	mg/kg	4 / 4	--	411	50	TCEQ	YES	ASL
	PAHs											
	120-12-7	Anthracene	0.0647	0.321	mg/kg	4 / 4	--	0.321	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.448	1.06	mg/kg	4 / 4	--	1.06	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.484	1.28	mg/kg	4 / 4	--	1.28	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.47	1.25	mg/kg	4 / 4	--	1.25	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.371	1.02	mg/kg	4 / 4	--	1.02	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.33	0.971	mg/kg	4 / 4	--	0.971	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.26	0.656	mg/kg	4 / 4	--	0.656	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.246	0.621	mg/kg	4 / 4	--	0.621	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.54	1.28	mg/kg	4 / 4	--	1.28	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0836	0.213	mg/kg	4 / 4	--	0.213	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.81	2.11	mg/kg	4 / 4	--	2.11	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.274	0.776	mg/kg	4 / 4	--	0.776	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.308	1.38	mg/kg	4 / 4	--	1.38	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.694	1.59	mg/ka	4 / 4	--	1.59	170	TCEQ	no	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Stratification Soil (0-6 in)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 146	Inorganics 7439-92-1	Lead	27.4	64.8	mg/kg	4 / 4	--	64.8	50	TCEQ	YES	ASL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0828	0.0828	mg/kg	1 / 4	0.0864 - 0.0951	0.0828	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0864	0.0864	mg/kg	1 / 4	0.0864 - 0.0951	0.0864	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0894	0.0894	mg/kg	1 / 4	0.0864 - 0.0951	0.0894	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0652	0.0652	mg/kg	1 / 4	0.0864 - 0.0951	0.0652	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.1	0.1	mg/kg	1 / 4	0.0864 - 0.0951	0.1	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.192	0.192	mg/kg	1 / 4	0.0623 - 0.0951	0.192	230	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.106	0.106	mg/kg	1 / 4	0.0864 - 0.0951	0.106	170	TCEQ	no	BSL
129-00-0	Pyrene	0.153	0.153	mg/kg	1 / 4	0.0864 - 0.0951	0.153	170	TCEQ	no	BSL	
DU 151	Inorganics 7439-92-1	Lead	29.2	52.7	mg/kg	4 / 4	--	52.7	50	TCEQ	YES	ASL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.158	0.385	mg/kg	4 / 4	--	0.385	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.194	0.467	mg/kg	4 / 4	--	0.467	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.187	0.431	mg/kg	4 / 4	--	0.431	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.143	0.419	mg/kg	4 / 4	--	0.419	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.161	0.427	mg/kg	4 / 4	--	0.427	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0988	0.233	mg/kg	4 / 4	--	0.233	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.109	0.237	mg/kg	4 / 4	--	0.237	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.193	0.493	mg/kg	4 / 4	--	0.493	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.105	0.105	mg/kg	1 / 4	0.092 - 0.101	0.105	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.255	0.565	mg/kg	4 / 4	--	0.565	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.139	0.304	mg/kg	4 / 4	--	0.304	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.109	0.26	mg/kg	4 / 4	--	0.26	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.22	0.526	mg/kg	4 / 4	--	0.526	170	TCEQ	no	BSL
DU 191	Inorganics 7439-92-1	Lead	10.1	42.6	mg/kg	5 / 5	--	42.6	50	TCEQ	no	BSL
	PAHs											
	205-99-2	Benzo(b)fluoranthene	0.0616	0.0616	mg/kg	1 / 5	0.0763 - 0.0885	0.0616	4.1	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.069	0.069	mg/kg	1 / 5	0.0763 - 0.0885	0.069	230	TCEQ	no	BSL
	129-00-0	Pyrene	0.0627	0.0627	mg/kg	1 / 5	0.0763 - 0.0885	0.0627	170	TCEQ	no	BSL

TABLE 2.2
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Current Medium: Soil Exposure Medium: Stratification Soil (0-6 in)
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Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
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Footnotes:

- (1) Maximum detected concentration.
- (2) Screening levels are Texas Commission on Environmental Quality (TCEQ) TRRP Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area multiplied by 0.1.
- (3) "ASL" = maximum concentration measured in soil is above screening level, "BSL" = maximum concentration measured in soil is below screening level.
- (4) The ¹²⁵Soil_{comb} PCL for benzo(j)fluoranthene in the March 2018 TRRP PCL tables is based on the outdated toxicity values for benzo(a)pyrene and a relative potency factor (RPF) of 0.1. USEPA updated benzo(a)pyrene's cancer slope factor and inhalation unit risk in January 2017 to 1 (mg/kg-day)⁻¹ and 0.0006 (µg/m³)⁻¹, respectively. The current toxicity values and a RPF of 0.1 were used to calculate a Tier 1 PCL (30 acre source area) of 39 mg/kg for benzo(j)fluoranthene.

Abbreviations:

mg/kg = milligram per kilogram

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 002-08	Inorganics											
	7439-92-1	Lead	10.4	25.9	mg/kg	15 / 15	--	25.9	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.0658	0.0658	mg/kg	1 / 15	0.0698 - 0.0749	0.0658	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.114	0.273	mg/kg	4 / 15	0.0698 - 0.0749	0.273	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0764	1.62	mg/kg	8 / 15	0.0712 - 0.0747	1.62	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.059	1.92	mg/kg	9 / 15	0.0712 - 0.0747	1.92	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0588	1.78	mg/kg	9 / 15	0.0712 - 0.0747	1.78	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.419	1.39	mg/kg	7 / 15	0.0712 - 0.0747	1.39	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.414	1.34	mg/kg	7 / 15	0.0712 - 0.0747	1.34	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.24	0.909	mg/kg	7 / 15	0.0712 - 0.0747	0.909	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.257	0.937	mg/kg	7 / 15	0.0712 - 0.0747	0.937	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0789	1.95	mg/kg	8 / 15	0.0712 - 0.0747	1.95	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0599	0.272	mg/kg	6 / 15	0.0698 - 0.0747	0.272	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0527	3.06	mg/kg	9 / 15	0.0712 - 0.0747	3.06	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.339	1.14	mg/kg	7 / 15	0.0712 - 0.0747	1.14	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0884	1.32	mg/kg	8 / 15	0.0712 - 0.0747	1.32	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.121	2.69	mg/kg	8 / 15	0.0712 - 0.0747	2.69	170	TCEQ	no	BSL
DU 004	Inorganics											
	7439-92-1	Lead	8.32	14.2	mg/kg	15 / 15	--	14.2	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0971	0.0971	mg/kg	1 / 15	0.07 - 0.0748	0.0971	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0704	0.352	mg/kg	4 / 15	0.07 - 0.0748	0.352	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0511	0.323	mg/kg	5 / 15	0.07 - 0.0748	0.323	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0507	0.288	mg/kg	5 / 15	0.07 - 0.0748	0.288	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.075	0.24	mg/kg	4 / 15	0.07 - 0.0748	0.24	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0726	0.193	mg/kg	4 / 15	0.07 - 0.0748	0.193	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0789	0.182	mg/kg	3 / 15	0.07 - 0.0748	0.182	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0521	0.175	mg/kg	4 / 15	0.07 - 0.0748	0.175	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0533	0.382	mg/kg	5 / 15	0.07 - 0.0748	0.382	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0632	0.0632	mg/kg	1 / 15	0.07 - 0.0748	0.0632	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0688	0.73	mg/kg	5 / 15	0.07 - 0.0748	0.73	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0603	0.168	mg/kg	4 / 15	0.07 - 0.0748	0.168	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0741	0.434	mg/kg	2 / 15	0.07 - 0.0748	0.434	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0635	0.616	mg/kg	5 / 15	0.07 - 0.0748	0.616	170	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 009	Inorganics											
	7439-92-1	Lead	4.9	50.6	mg/kg	12 / 12	--	50.6	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0674	0.0674	mg/kg	1 / 12	0.0736 - 0.0749	0.0674	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0528	0.167	mg/kg	3 / 12	0.0736 - 0.0749	0.167	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.52	1.39	mg/kg	4 / 12	0.0736 - 0.0749	1.39	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.636	1.62	mg/kg	4 / 12	0.0736 - 0.0749	1.62	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.608	1.58	mg/kg	4 / 12	0.0736 - 0.0749	1.58	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.487	1.21	mg/kg	4 / 12	0.0736 - 0.0749	1.21	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.503	1.15	mg/kg	4 / 12	0.0736 - 0.0749	1.15	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.318	0.796	mg/kg	4 / 12	0.0736 - 0.0749	0.796	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.307	0.775	mg/kg	4 / 12	0.0736 - 0.0749	0.775	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.66	1.74	mg/kg	4 / 12	0.0736 - 0.0749	1.74	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0942	0.24	mg/kg	4 / 12	0.0736 - 0.0749	0.24	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.783	2.43	mg/kg	4 / 12	0.0736 - 0.0749	2.43	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.413	0.967	mg/kg	4 / 12	0.0736 - 0.0749	0.967	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.218	1.1	mg/kg	4 / 12	0.0736 - 0.0749	1.1	170	TCEQ	no	BSL
129-00-0	Pyrene	0.739	2.08	mg/kg	4 / 12	0.0736 - 0.0749	2.08	170	TCEQ	no	BSL	
DU 010	Inorganics											
	7439-92-1	Lead	4.97	16.7	mg/kg	15 / 15	--	16.7	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0565	0.258	mg/kg	3 / 15	0.071 - 0.0747	0.258	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.329	1.24	mg/kg	3 / 15	0.071 - 0.0747	1.24	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0543	1.64	mg/kg	4 / 15	0.0716 - 0.0747	1.64	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0512	1.47	mg/kg	4 / 15	0.0716 - 0.0747	1.47	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.27	1.17	mg/kg	3 / 15	0.071 - 0.0747	1.17	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0525	1.25	mg/kg	4 / 15	0.0716 - 0.0747	1.25	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.185	0.761	mg/kg	3 / 15	0.071 - 0.0747	0.761	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.185	0.781	mg/kg	3 / 15	0.071 - 0.0747	0.781	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.411	1.51	mg/kg	3 / 15	0.071 - 0.0747	1.51	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0679	0.274	mg/kg	3 / 15	0.071 - 0.0747	0.274	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0669	2.44	mg/kg	4 / 15	0.0716 - 0.0747	2.44	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.261	1.04	mg/kg	3 / 15	0.071 - 0.0747	1.04	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.33	1.39	mg/kg	3 / 15	0.071 - 0.0747	1.39	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0575	1.86	mg/kg	4 / 15	0.0716 - 0.0747	1.86	170	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 010-03	Inorganics 7439-92-1	Lead	5.08	55.6	mg/kg	15 / 15	--	55.6	50	TCEQ	YES	ASL	
	PAHs 83-32-9	Acenaphthene	0.056	0.559	mg/kg	6 / 15	0.0725 - 0.0746	0.559	300	TCEQ	no	BSL	
	120-12-7	Anthracene	0.228	1.52	mg/kg	6 / 15	0.0725 - 0.0746	1.52	1800	TCEQ	no	BSL	
	56-55-3	Benzo(a)anthracene	0.136	12.2	mg/kg	7 / 15	0.0725 - 0.0746	12.2	4.1	TCEQ	YES	ASL	
	50-32-8	Benzo(a)pyrene	0.05	15	mg/kg	9 / 15	0.0725 - 0.0742	15	0.41	TCEQ	YES	ASL	
	205-99-2	Benzo(b)fluoranthene	0.174	14.6	mg/kg	7 / 15	0.0725 - 0.0746	14.6	4.1	TCEQ	YES	ASL	
	192-97-2	Benzo(e)pyrene	0.121	10.9	mg/kg	7 / 15	0.0725 - 0.0746	10.9	180	TCEQ	no	BSL	
	191-24-2	Benzo(g,h,i)perylene	0.153	11.7	mg/kg	7 / 15	0.0725 - 0.0746	11.7	180	TCEQ	no	BSL	
	205-82-3	Benzo(j)fluoranthene	0.0833	7.93	mg/kg	7 / 15	0.0725 - 0.0746	7.93	3.9	TCEQ	YES	ASL	
	207-08-9	Benzo(k)fluoranthene	0.1	8.21	mg/kg	7 / 15	0.0725 - 0.0746	8.21	42	TCEQ	no	BSL	
	218-01-9	Chrysene	0.0503	15.3	mg/kg	8 / 15	0.0725 - 0.0742	15.3	410	TCEQ	no	BSL	
	53-70-3	Dibenzo(a,h)anthracene	0.341	2.84	mg/kg	6 / 15	0.0725 - 0.0746	2.84	0.4	TCEQ	YES	ASL	
	206-44-0	Fluoranthene	0.207	17.9	mg/kg	7 / 15	0.0725 - 0.0746	17.9	230	TCEQ	no	BSL	
	86-73-7	Fluorene	0.0746	0.217	mg/kg	4 / 15	0.0708 - 0.0746	0.217	230	TCEQ	no	BSL	
	193-39-5	Indeno(1,2,3-cd)pyrene	0.13	10.3	mg/kg	7 / 15	0.0725 - 0.0746	10.3	4.2	TCEQ	YES	ASL	
	85-01-8	Phenanthrene	0.0866	8.97	mg/kg	7 / 15	0.0725 - 0.0746	8.97	170	TCEQ	no	BSL	
	129-00-0	Pyrene	0.183	15.4	mg/kg	7 / 15	0.0725 - 0.0746	15.4	170	TCEQ	no	BSL	
	DU 010-04	Inorganics 7439-92-1	Lead	5.47	187	mg/kg	16 / 16	--	187	50	TCEQ	YES	ASL
		PAHs 83-32-9	Acenaphthene	0.0994	3.11	mg/kg	10 / 16	0.0694 - 0.089	3.11	300	TCEQ	no	BSL
120-12-7		Anthracene	0.0502	9.75	mg/kg	11 / 16	0.0694 - 0.089	9.75	1800	TCEQ	no	BSL	
56-55-3		Benzo(a)anthracene	0.08	85	mg/kg	16 / 16	--	85	4.1	TCEQ	YES	ASL	
50-32-8		Benzo(a)pyrene	0.1	105	mg/kg	16 / 16	--	105	0.41	TCEQ	YES	ASL	
205-99-2		Benzo(b)fluoranthene	0.091	98	mg/kg	16 / 16	--	98	4.1	TCEQ	YES	ASL	
192-97-2		Benzo(e)pyrene	0.0838	78.9	mg/kg	16 / 16	--	78.9	180	TCEQ	no	BSL	
191-24-2		Benzo(g,h,i)perylene	0.085	76.1	mg/kg	16 / 16	--	76.1	180	TCEQ	no	BSL	
205-82-3		Benzo(j)fluoranthene	0.056	51.7	mg/kg	16 / 16	--	51.7	3.9	TCEQ	YES	ASL	
207-08-9		Benzo(k)fluoranthene	0.0574	51.3	mg/kg	16 / 16	--	51.3	42	TCEQ	YES	ASL	
218-01-9		Chrysene	0.0962	101	mg/kg	16 / 16	--	101	410	TCEQ	no	BSL	
53-70-3		Dibenzo(a,h)anthracene	0.0561	16.8	mg/kg	13 / 16	0.0694 - 0.089	16.8	0.4	TCEQ	YES	ASL	
206-44-0		Fluoranthene	0.118	133	mg/kg	16 / 16	--	133	230	TCEQ	no	BSL	
86-73-7		Fluorene	0.0912	1.36	mg/kg	10 / 16	0.0694 - 0.089	1.36	230	TCEQ	no	BSL	
193-39-5		Indeno(1,2,3-cd)pyrene	0.0682	61.7	mg/kg	16 / 16	--	61.7	4.2	TCEQ	YES	ASL	
85-01-8		Phenanthrene	0.0548	48.5	mg/kg	15 / 16	0.0694 - 0.0694	48.5	170	TCEQ	no	BSL	
129-00-0		Pyrene	0.109	115	mg/kg	16 / 16	--	115	170	TCEQ	no	BSL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 010-06	Inorganics 7439-92-1	Lead	6.21	246	mg/kg	15 / 15	--	246	50	TCEQ	YES	ASL	
	PAHs 83-32-9	Acenaphthene	0.154	1.05	mg/kg	9 / 15	0.0699 - 0.0741	1.05	300	TCEQ	no	BSL	
	120-12-7	Anthracene	0.086	3.69	mg/kg	10 / 15	0.0699 - 0.0741	3.69	1800	TCEQ	no	BSL	
	56-55-3	Benzo(a)anthracene	0.141	28.3	mg/kg	11 / 15	0.0714 - 0.0741	28.3	4.1	TCEQ	YES	ASL	
	50-32-8	Benzo(a)pyrene	0.154	35.5	mg/kg	11 / 15	0.0714 - 0.0741	35.5	0.41	TCEQ	YES	ASL	
	205-99-2	Benzo(b)fluoranthene	0.136	33.9	mg/kg	11 / 15	0.0714 - 0.0741	33.9	4.1	TCEQ	YES	ASL	
	192-97-2	Benzo(e)pyrene	0.113	26.8	mg/kg	11 / 15	0.0714 - 0.0741	26.8	180	TCEQ	no	BSL	
	191-24-2	Benzo(g,h,i)perylene	0.105	27.6	mg/kg	11 / 15	0.0714 - 0.0741	27.6	180	TCEQ	no	BSL	
	205-82-3	Benzo(j)fluoranthene	0.0726	17.5	mg/kg	12 / 15	0.0714 - 0.073	17.5	3.9	TCEQ	YES	ASL	
	207-08-9	Benzo(k)fluoranthene	0.0812	16.8	mg/kg	11 / 15	0.0714 - 0.0741	16.8	42	TCEQ	no	BSL	
	218-01-9	Chrysene	0.157	33.3	mg/kg	11 / 15	0.0714 - 0.0741	33.3	410	TCEQ	no	BSL	
	53-70-3	Dibenzo(a,h)anthracene	0.0856	5.97	mg/kg	10 / 15	0.0699 - 0.0741	5.97	0.4	TCEQ	YES	ASL	
	206-44-0	Fluoranthene	0.0527	44.6	mg/kg	12 / 15	0.0714 - 0.0741	44.6	230	TCEQ	no	BSL	
	86-73-7	Fluorene	0.128	0.591	mg/kg	9 / 15	0.0699 - 0.0741	0.591	230	TCEQ	no	BSL	
	193-39-5	Indeno(1,2,3-cd)pyrene	0.084	21.9	mg/kg	11 / 15	0.0714 - 0.0741	21.9	4.2	TCEQ	YES	ASL	
	85-01-8	Phenanthrene	0.144	17.8	mg/kg	11 / 15	0.0714 - 0.0741	17.8	170	TCEQ	no	BSL	
	129-00-0	Pyrene	0.0507	38.1	mg/kg	12 / 15	0.0714 - 0.0741	38.1	170	TCEQ	no	BSL	
	DU 016	Inorganics 7439-92-1	Lead	4.68	19.3	mg/kg	15 / 15	--	19.3	50	TCEQ	no	BSL
		PAHs 83-32-9	Acenaphthene	0.0526	0.191	mg/kg	4 / 15	0.0703 - 0.143	0.191	300	TCEQ	no	BSL
120-12-7		Anthracene	0.0731	1.19	mg/kg	6 / 15	0.0703 - 0.0746	1.19	1800	TCEQ	no	BSL	
56-55-3		Benzo(a)anthracene	0.154	4.15	mg/kg	8 / 15	0.0703 - 0.0746	4.15	4.1	TCEQ	YES	ASL	
50-32-8		Benzo(a)pyrene	0.19	4.21	mg/kg	8 / 15	0.0703 - 0.0746	4.21	0.41	TCEQ	YES	ASL	
205-99-2		Benzo(b)fluoranthene	0.0532	3.84	mg/kg	9 / 15	0.0703 - 0.0746	3.84	4.1	TCEQ	no	BSL	
192-97-2		Benzo(e)pyrene	0.119	2.89	mg/kg	8 / 15	0.0703 - 0.0746	2.89	180	TCEQ	no	BSL	
191-24-2		Benzo(g,h,i)perylene	0.123	2.75	mg/kg	8 / 15	0.0703 - 0.0746	2.75	180	TCEQ	no	BSL	
205-82-3		Benzo(j)fluoranthene	0.0561	1.98	mg/kg	8 / 15	0.0703 - 0.0746	1.98	3.9	TCEQ	no	BSL	
207-08-9		Benzo(k)fluoranthene	0.0856	1.96	mg/kg	8 / 15	0.0703 - 0.0746	1.96	42	TCEQ	no	BSL	
218-01-9		Chrysene	0.183	4.77	mg/kg	8 / 15	0.0703 - 0.0746	4.77	410	TCEQ	no	BSL	
53-70-3		Dibenzo(a,h)anthracene	0.0849	0.52	mg/kg	7 / 15	0.0703 - 0.0746	0.52	0.4	TCEQ	YES	ASL	
206-44-0		Fluoranthene	0.05	10.3	mg/kg	10 / 15	0.0717 - 0.0746	10.3	230	TCEQ	no	BSL	
86-73-7		Fluorene	0.0997	0.16	mg/kg	3 / 15	0.0699 - 0.143	0.16	230	TCEQ	no	BSL	
193-39-5		Indeno(1,2,3-cd)pyrene	0.1	2.36	mg/kg	8 / 15	0.0703 - 0.0746	2.36	4.2	TCEQ	no	BSL	
85-01-8		Phenanthrene	0.106	5.53	mg/kg	8 / 15	0.0703 - 0.0746	5.53	170	TCEQ	no	BSL	
129-00-0		Pyrene	0.251	8.37	mg/kg	8 / 15	0.0703 - 0.0746	8.37	170	TCEQ	no	BSL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 019-01	Inorganics											
	7439-92-1	Lead	4.05	16.4	mg/kg	15 / 15	--	16.4	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0601	0.0923	mg/kg	2 / 15	0.0704 - 0.0749	0.0923	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0486	0.704	mg/kg	10 / 15	0.0727 - 0.0744	0.704	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0638	0.847	mg/kg	9 / 15	0.0727 - 0.0748	0.847	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0531	0.837	mg/kg	10 / 15	0.0727 - 0.0744	0.837	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0517	0.682	mg/kg	9 / 15	0.0727 - 0.0748	0.682	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0508	0.636	mg/kg	9 / 15	0.0727 - 0.0748	0.636	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0504	0.445	mg/kg	8 / 15	0.0704 - 0.0748	0.445	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0487	0.421	mg/kg	8 / 15	0.0704 - 0.0748	0.421	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0614	0.871	mg/kg	9 / 15	0.0727 - 0.0748	0.871	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0588	0.136	mg/kg	3 / 15	0.0704 - 0.0749	0.136	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0629	1.36	mg/kg	11 / 15	0.0727 - 0.0744	1.36	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0616	0.538	mg/kg	8 / 15	0.0704 - 0.0748	0.538	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.0572	0.49	mg/kg	6 / 15	0.0704 - 0.0744	0.49	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.06	1.17	mg/kg	11 / 15	0.0727 - 0.0744	1.17	170	TCEQ	no	BSL	
DU 038	Inorganics											
	7439-92-1	Lead	4.18	97.5	mg/kg	15 / 15	--	97.5	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.208	0.249	mg/kg	2 / 15	0.0694 - 0.756	0.249	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0659	1.48	mg/kg	4 / 15	0.0694 - 0.756	1.48	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0679	4.54	mg/kg	12 / 15	0.0704 - 0.0746	4.54	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	0.0748	4.48	mg/kg	12 / 15	0.0704 - 0.0746	4.48	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0675	4.18	mg/kg	12 / 15	0.0704 - 0.0746	4.18	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	0.0528	3.14	mg/kg	12 / 15	0.0704 - 0.0746	3.14	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0506	2.8	mg/kg	12 / 15	0.0704 - 0.0746	2.8	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0547	2.26	mg/kg	11 / 15	0.0704 - 0.0746	2.26	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0556	2.15	mg/kg	11 / 15	0.0704 - 0.0746	2.15	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.075	4.95	mg/kg	12 / 15	0.0704 - 0.0746	4.95	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0613	0.735	mg/kg	5 / 15	0.0694 - 0.756	0.735	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.0697	9.72	mg/kg	13 / 15	0.0704 - 0.0743	9.72	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0883	0.307	mg/kg	2 / 15	0.0694 - 0.756	0.307	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0647	2.45	mg/kg	11 / 15	0.0704 - 0.0746	2.45	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0736	5.88	mg/kg	11 / 15	0.0704 - 0.756	5.88	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.055	7.42	mg/kg	13 / 15	0.0704 - 0.0743	7.42	170	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 040	Inorganics 7439-92-1	Lead	3.8	52.8	mg/kg	15 / 15	--	52.8	50	TCEQ	YES	ASL	
	PAHs 83-32-9	Acenaphthene	0.0996	0.464	mg/kg	3 / 15	0.0728 - 0.0749	0.464	300	TCEQ	no	BSL	
	120-12-7	Anthracene	0.121	2.58	mg/kg	4 / 15	0.0728 - 0.0749	2.58	1800	TCEQ	no	BSL	
	56-55-3	Benzo(a)anthracene	0.0488	10.3	mg/kg	8 / 15	0.0738 - 0.0749	10.3	4.1	TCEQ	YES	ASL	
	50-32-8	Benzo(a)pyrene	0.0706	10.6	mg/kg	8 / 15	0.0738 - 0.0749	10.6	0.41	TCEQ	YES	ASL	
	205-99-2	Benzo(b)fluoranthene	0.0698	9.75	mg/kg	8 / 15	0.0738 - 0.0749	9.75	4.1	TCEQ	YES	ASL	
	192-97-2	Benzo(e)pyrene	0.0565	7.04	mg/kg	8 / 15	0.0738 - 0.0749	7.04	180	TCEQ	no	BSL	
	191-24-2	Benzo(g,h,i)perylene	0.0635	6.9	mg/kg	8 / 15	0.0738 - 0.0749	6.9	180	TCEQ	no	BSL	
	205-82-3	Benzo(j)fluoranthene	0.0694	5.53	mg/kg	7 / 15	0.0729 - 0.0749	5.53	3.9	TCEQ	YES	ASL	
	207-08-9	Benzo(k)fluoranthene	0.0648	5.72	mg/kg	7 / 15	0.0729 - 0.0749	5.72	42	TCEQ	no	BSL	
	218-01-9	Chrysene	0.0678	11.8	mg/kg	8 / 15	0.0738 - 0.0749	11.8	410	TCEQ	no	BSL	
	53-70-3	Dibenzo(a,h)anthracene	0.0615	1.78	mg/kg	6 / 15	0.0729 - 0.0749	1.78	0.4	TCEQ	YES	ASL	
	206-44-0	Fluoranthene	0.0777	18.3	mg/kg	9 / 15	0.0738 - 0.0747	18.3	230	TCEQ	no	BSL	
	86-73-7	Fluorene	0.0568	0.435	mg/kg	3 / 15	0.0728 - 0.0749	0.435	230	TCEQ	no	BSL	
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0549	6.24	mg/kg	8 / 15	0.0738 - 0.0749	6.24	4.2	TCEQ	YES	ASL	
	85-01-8	Phenanthrene	0.0952	11.2	mg/kg	7 / 15	0.0729 - 0.0749	11.2	170	TCEQ	no	BSL	
	129-00-0	Pyrene	0.069	15	mg/kg	9 / 15	0.0738 - 0.0747	15	170	TCEQ	no	BSL	
	DU 044	Inorganics 7439-92-1	Lead	4.48	188	mg/kg	15 / 15	--	188	50	TCEQ	YES	ASL
		PAHs 83-32-9	Acenaphthene	0.0721	0.623	mg/kg	5 / 15	0.0712 - 0.106	0.623	300	TCEQ	no	BSL
120-12-7		Anthracene	0.0709	2.61	mg/kg	8 / 15	0.072 - 0.106	2.61	1800	TCEQ	no	BSL	
56-55-3		Benzo(a)anthracene	0.0536	15.3	mg/kg	10 / 15	0.0742 - 0.106	15.3	4.1	TCEQ	YES	ASL	
50-32-8		Benzo(a)pyrene	0.0573	18.1	mg/kg	11 / 15	0.0742 - 0.106	18.1	0.41	TCEQ	YES	ASL	
205-99-2		Benzo(b)fluoranthene	0.0701	16.9	mg/kg	10 / 15	0.0742 - 0.106	16.9	4.1	TCEQ	YES	ASL	
192-97-2		Benzo(e)pyrene	0.0549	12.7	mg/kg	10 / 15	0.0742 - 0.106	12.7	180	TCEQ	no	BSL	
191-24-2		Benzo(g,h,i)perylene	0.0579	12.6	mg/kg	10 / 15	0.0742 - 0.106	12.6	180	TCEQ	no	BSL	
205-82-3		Benzo(j)fluoranthene	0.15	9.3	mg/kg	8 / 15	0.072 - 0.106	9.3	3.9	TCEQ	YES	ASL	
207-08-9		Benzo(k)fluoranthene	0.142	9.51	mg/kg	8 / 15	0.072 - 0.106	9.51	42	TCEQ	no	BSL	
218-01-9		Chrysene	0.066	18.6	mg/kg	11 / 15	0.0742 - 0.106	18.6	410	TCEQ	no	BSL	
53-70-3		Dibenzo(a,h)anthracene	0.097	3.02	mg/kg	7 / 15	0.072 - 0.106	3.02	0.4	TCEQ	YES	ASL	
206-44-0		Fluoranthene	0.0799	24.3	mg/kg	11 / 15	0.0742 - 0.106	24.3	230	TCEQ	no	BSL	
86-73-7		Fluorene	0.0696	0.435	mg/kg	5 / 15	0.0712 - 0.106	0.435	230	TCEQ	no	BSL	
193-39-5		Indeno(1,2,3-cd)pyrene	0.0543	10.9	mg/kg	10 / 15	0.0742 - 0.106	10.9	4.2	TCEQ	YES	ASL	
85-01-8		Phenanthrene	0.362	12.5	mg/kg	8 / 15	0.072 - 0.106	12.5	170	TCEQ	no	BSL	
129-00-0		Pyrene	0.0747	20.8	mg/kg	11 / 15	0.0742 - 0.106	20.8	170	TCEQ	no	BSL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 046	Inorganics											
	7439-92-1	Lead	6.8	19.8	mg/kg	16 / 16	--	19.8	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.128	0.128	mg/kg	1 / 16	0.0692 - 0.0907	0.128	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0634	0.182	mg/kg	2 / 16	0.0692 - 0.0907	0.182	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.212	1.64	mg/kg	5 / 16	0.0692 - 0.0907	1.64	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.263	2.15	mg/kg	5 / 16	0.0692 - 0.0907	2.15	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.262	1.94	mg/kg	5 / 16	0.0692 - 0.0907	1.94	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.209	1.57	mg/kg	5 / 16	0.0692 - 0.0907	1.57	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.194	1.53	mg/kg	5 / 16	0.0692 - 0.0907	1.53	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.123	0.986	mg/kg	5 / 16	0.0692 - 0.0907	0.986	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.13	0.956	mg/kg	5 / 16	0.0692 - 0.0907	0.956	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.253	2.2	mg/kg	5 / 16	0.0692 - 0.0907	2.2	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0549	0.271	mg/kg	2 / 16	0.0692 - 0.0907	0.271	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0496	2.77	mg/kg	6 / 16	0.0692 - 0.0907	2.77	230	TCEQ	no	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	0.153	1.27	mg/kg	5 / 16	0.0692 - 0.0907	1.27	4.2	TCEQ	no	BSL	
85-01-8	Phenanthrene	0.0542	0.995	mg/kg	5 / 16	0.0692 - 0.0907	0.995	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.316	2.66	mg/kg	5 / 16	0.0692 - 0.0907	2.66	170	TCEQ	no	BSL	
DU 050	Inorganics											
	7439-92-1	Lead	2.87	144	mg/kg	15 / 15	--	144	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0789	1.45	mg/kg	5 / 15	0.0706 - 0.0749	1.45	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.273	4.28	mg/kg	5 / 15	0.0706 - 0.0749	4.28	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	1.28	35.5	mg/kg	5 / 15	0.0706 - 0.0749	35.5	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	1.46	45.2	mg/kg	5 / 15	0.0706 - 0.0749	45.2	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	1.26	42.2	mg/kg	5 / 15	0.0706 - 0.0749	42.2	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	0.991	32.8	mg/kg	5 / 15	0.0706 - 0.0749	32.8	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.979	33.7	mg/kg	5 / 15	0.0706 - 0.0749	33.7	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.69	21.4	mg/kg	5 / 15	0.0706 - 0.0749	21.4	3.9	TCEQ	YES	ASL
	207-08-9	Benzo(k)fluoranthene	0.68	21.2	mg/kg	5 / 15	0.0706 - 0.0749	21.2	42	TCEQ	no	BSL
	218-01-9	Chrysene	1.59	44	mg/kg	5 / 15	0.0706 - 0.0749	44	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.198	7.57	mg/kg	5 / 15	0.0706 - 0.0749	7.57	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	2.67	58.2	mg/kg	5 / 15	0.0706 - 0.0749	58.2	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.183	0.701	mg/kg	4 / 15	0.0696 - 0.0749	0.701	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.836	28.5	mg/kg	5 / 15	0.0706 - 0.0749	28.5	4.2	TCEQ	YES	ASL
	85-01-8	Phenanthrene	1.3	20.2	mg/kg	5 / 15	0.0706 - 0.0749	20.2	170	TCEQ	no	BSL
	129-00-0	Pyrene	2.4	52.7	mg/kg	5 / 15	0.0706 - 0.0749	52.7	170	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 053	Inorganics											
	7439-92-1	Lead	5.37	39.3	mg/kg	14 / 14	--	39.3	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.0568	0.111	mg/kg	3 / 15	0.0696 - 0.0749	0.111	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0636	0.316	mg/kg	6 / 15	0.0735 - 0.0749	0.316	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0981	2.94	mg/kg	9 / 15	0.0735 - 0.0749	2.94	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.115	3.79	mg/kg	9 / 14	0.0735 - 0.0749	3.79	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.11	3.61	mg/kg	9 / 14	0.0735 - 0.0749	3.61	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0543	2.9	mg/kg	9 / 15	0.0735 - 0.0749	2.9	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0994	2.69	mg/kg	9 / 14	0.0735 - 0.0749	2.69	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0624	1.86	mg/kg	8 / 15	0.0735 - 0.0749	1.86	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0838	1.83	mg/kg	9 / 14	0.0735 - 0.0749	1.83	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.115	3.53	mg/kg	9 / 15	0.0735 - 0.0749	3.53	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.053	0.646	mg/kg	9 / 14	0.0746 - 0.0749	0.646	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.127	5	mg/kg	9 / 15	0.0735 - 0.0749	5	230	TCEQ	no	BSL
193-39-5	Indeno(1,2,3-cd)pyrene	0.0527	2.33	mg/kg	10 / 14	0.0746 - 0.0749	2.33	4.2	TCEQ	no	BSL	
85-01-8	Phenanthrene	0.0596	1.62	mg/kg	9 / 15	0.0735 - 0.0749	1.62	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.112	4.41	mg/kg	9 / 15	0.0735 - 0.0749	4.41	170	TCEQ	no	BSL	
DU 056	Inorganics											
	7439-92-1	Lead	7.4	88.3	mg/kg	15 / 15	--	88.3	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0535	0.0723	mg/kg	2 / 15	0.0476 - 0.05	0.0723	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0763	0.576	mg/kg	4 / 15	0.0476 - 0.05	0.576	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0902	2.45	mg/kg	6 / 15	0.0476 - 0.05	2.45	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.057	2.76	mg/kg	7 / 15	0.0476 - 0.05	2.76	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0541	2.62	mg/kg	7 / 15	0.0476 - 0.05	2.62	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0794	2.08	mg/kg	6 / 15	0.0476 - 0.05	2.08	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0556	1.89	mg/kg	7 / 15	0.0476 - 0.05	1.89	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0514	1.39	mg/kg	6 / 15	0.0476 - 0.05	1.39	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.067	1.32	mg/kg	5 / 15	0.0476 - 0.05	1.32	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.107	2.8	mg/kg	6 / 15	0.0476 - 0.05	2.8	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0916	0.429	mg/kg	4 / 15	0.0476 - 0.05	0.429	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.0533	4.78	mg/kg	8 / 15	0.0491 - 0.05	4.78	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0523	0.0836	mg/kg	2 / 15	0.0476 - 0.05	0.0836	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0594	1.58	mg/kg	6 / 15	0.0476 - 0.05	1.58	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0834	2.46	mg/kg	6 / 15	0.0476 - 0.05	2.46	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0566	3.78	mg/kg	7 / 15	0.0491 - 0.05	3.78	170	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 058	Inorganics											
	7439-92-1	Lead	8.04	120	mg/kg	15 / 15	--	120	50	TCEQ	YES	ASL
	PAHs											
	120-12-7	Anthracene	0.0618	0.0618	mg/kg	1 / 15	0.0708 - 0.0744	0.0618	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0524	0.151	mg/kg	5 / 15	0.0708 - 0.0744	0.151	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0572	0.183	mg/kg	5 / 15	0.0708 - 0.0744	0.183	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0657	0.195	mg/kg	5 / 15	0.0708 - 0.0744	0.195	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0664	0.126	mg/kg	4 / 15	0.0708 - 0.0744	0.126	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0571	0.18	mg/kg	5 / 15	0.0708 - 0.0744	0.18	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0724	0.0784	mg/kg	3 / 15	0.0698 - 0.0744	0.0784	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.103	0.107	mg/kg	4 / 15	0.0708 - 0.0744	0.107	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0575	0.185	mg/kg	5 / 15	0.0708 - 0.0744	0.185	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0627	0.0792	mg/kg	4 / 15	0.0708 - 0.0744	0.0792	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0486	0.224	mg/kg	5 / 15	0.0708 - 0.0744	0.224	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0564	0.164	mg/kg	5 / 15	0.0708 - 0.0744	0.164	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.0603	0.113	mg/kg	4 / 15	0.0708 - 0.0744	0.113	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.112	0.203	mg/kg	4 / 15	0.0708 - 0.0744	0.203	170	TCEQ	no	BSL	
DU 060	Inorganics											
	7439-92-1	Lead	6.18	16.3	mg/kg	15 / 15	--	16.3	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0589	0.296	mg/kg	3 / 15	0.0484 - 0.05	0.296	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0719	0.35	mg/kg	3 / 15	0.0484 - 0.05	0.35	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0679	0.339	mg/kg	3 / 15	0.0484 - 0.05	0.339	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0527	0.279	mg/kg	3 / 15	0.0484 - 0.05	0.279	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0569	0.283	mg/kg	3 / 15	0.0484 - 0.05	0.283	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.179	0.179	mg/kg	1 / 15	0.0484 - 0.05	0.179	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.172	0.172	mg/kg	1 / 15	0.0484 - 0.05	0.172	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0728	0.372	mg/kg	3 / 15	0.0484 - 0.05	0.372	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0637	0.0637	mg/kg	1 / 15	0.0484 - 0.05	0.0637	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0971	0.547	mg/kg	3 / 15	0.0484 - 0.05	0.547	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0589	0.236	mg/kg	2 / 15	0.0484 - 0.05	0.236	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.053	0.236	mg/kg	2 / 15	0.0484 - 0.05	0.236	170	TCEQ	no	BSL
129-00-0	Pyrene	0.0911	0.462	mg/kg	3 / 15	0.0484 - 0.05	0.462	170	TCEQ	no	BSL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 063	Inorganics 7439-92-1	Lead	4.3	76.1	mg/kg	12 / 12	--	76.1	50	TCEQ	YES	ASL
	PAHs 56-55-3	Benzo(a)anthracene	0.0542	0.213	mg/kg	6 / 12	0.0688 - 0.0746	0.213	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0553	0.265	mg/kg	11 / 12	0.0688 - 0.0688	0.265	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0527	0.257	mg/kg	11 / 12	0.0688 - 0.0688	0.257	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.145	0.164	mg/kg	3 / 12	0.0688 - 0.0749	0.164	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0474	0.222	mg/kg	12 / 12	--	0.222	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0952	0.104	mg/kg	3 / 12	0.0688 - 0.0749	0.104	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0511	0.175	mg/kg	11 / 12	0.0688 - 0.0688	0.175	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0491	0.258	mg/kg	11 / 12	0.0688 - 0.0688	0.258	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0499	0.116	mg/kg	12 / 12	--	0.116	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.21	0.34	mg/kg	3 / 12	0.0688 - 0.0749	0.34	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0492	0.203	mg/kg	12 / 12	--	0.203	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0648	0.144	mg/kg	3 / 12	0.0688 - 0.0749	0.144	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.197	0.29	mg/kg	3 / 12	0.0688 - 0.0749	0.29	170	TCEQ	no	BSL
DU 064	Inorganics 7439-92-1	Lead	5.19	168	mg/kg	15 / 15	--	168	50	TCEQ	YES	ASL
	PAHs 83-32-9	Acenaphthene	0.0656	0.467	mg/kg	5 / 15	0.0706 - 0.0749	0.467	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0737	1.42	mg/kg	6 / 15	0.0706 - 0.0749	1.42	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.107	9.11	mg/kg	7 / 15	0.0706 - 0.0749	9.11	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	0.0519	12.6	mg/kg	8 / 15	0.0706 - 0.0749	12.6	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.148	11	mg/kg	7 / 15	0.0706 - 0.0749	11	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	0.125	9.17	mg/kg	7 / 15	0.0706 - 0.0749	9.17	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.15	10.2	mg/kg	7 / 15	0.0706 - 0.0749	10.2	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.077	5.99	mg/kg	7 / 15	0.0706 - 0.0749	5.99	3.9	TCEQ	YES	ASL
	207-08-9	Benzo(k)fluoranthene	0.0797	5.71	mg/kg	7 / 15	0.0706 - 0.0749	5.71	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.051	10.9	mg/kg	9 / 15	0.0706 - 0.0749	10.9	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.149	2.25	mg/kg	6 / 15	0.0706 - 0.0749	2.25	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.0599	15.8	mg/kg	9 / 15	0.0706 - 0.0749	15.8	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.056	0.233	mg/kg	3 / 15	0.0706 - 0.0749	0.233	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.123	8.34	mg/kg	7 / 15	0.0706 - 0.0749	8.34	4.2	TCEQ	YES	ASL
	85-01-8	Phenanthrene	0.0549	6.87	mg/kg	8 / 15	0.0706 - 0.0749	6.87	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0545	13.2	mg/kg	9 / 15	0.0706 - 0.0749	13.2	170	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 066	Inorganics 7439-92-1	Lead	4.92	136	mg/kg	15 / 15	--	136	50	TCEQ	YES	ASL
	PAHs											
	120-12-7	Anthracene	0.0571	0.144	mg/kg	3 / 15	0.0693 - 0.0749	0.144	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0583	0.577	mg/kg	4 / 15	0.0693 - 0.0749	0.577	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0582	0.68	mg/kg	4 / 15	0.0693 - 0.0749	0.68	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0791	0.68	mg/kg	4 / 15	0.0693 - 0.0749	0.68	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.372	0.537	mg/kg	3 / 15	0.0693 - 0.0749	0.537	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0609	0.615	mg/kg	4 / 15	0.0693 - 0.0749	0.615	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.235	0.334	mg/kg	3 / 15	0.0693 - 0.0749	0.334	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.06	0.375	mg/kg	4 / 15	0.0693 - 0.0749	0.375	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0587	0.711	mg/kg	4 / 15	0.0693 - 0.0749	0.711	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0628	0.181	mg/kg	4 / 15	0.0693 - 0.0749	0.181	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0497	1.02	mg/kg	5 / 15	0.0693 - 0.0749	1.02	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0687	0.537	mg/kg	4 / 15	0.0693 - 0.0749	0.537	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.253	0.517	mg/kg	3 / 15	0.0693 - 0.0749	0.517	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.061	0.858	mg/kg	4 / 15	0.0693 - 0.0749	0.858	170	TCEQ	no	BSL	
DU 069	Inorganics 7439-92-1	Lead	4.97	18.1	mg/kg	15 / 15	--	18.1	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0564	0.0564	mg/kg	1 / 15	0.073 - 0.0749	0.0564	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0772	0.0772	mg/kg	1 / 15	0.073 - 0.0749	0.0772	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0756	0.0756	mg/kg	1 / 15	0.073 - 0.0749	0.0756	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0631	0.0631	mg/kg	1 / 15	0.073 - 0.0749	0.0631	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0671	0.0671	mg/kg	1 / 15	0.073 - 0.0749	0.0671	180	TCEQ	no	BSL
	218-01-9	Chrysene	0.0536	0.0776	mg/kg	2 / 15	0.073 - 0.0749	0.0776	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0643	0.0918	mg/kg	2 / 15	0.073 - 0.0749	0.0918	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0529	0.0529	mg/kg	1 / 15	0.073 - 0.0749	0.0529	4.2	TCEQ	no	BSL
129-00-0	Pyrene	0.0577	0.0832	mg/kg	2 / 15	0.073 - 0.0749	0.0832	170	TCEQ	no	BSL	
DU 074	Inorganics 7439-92-1	Lead	13.4	205	mg/kg	16 / 16	--	205	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.134	4.05	mg/kg	15 / 16	0.0902 - 0.0902	4.05	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.363	14.4	mg/kg	15 / 16	0.0902 - 0.0902	14.4	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	3.15	91.6	mg/kg	15 / 16	0.0902 - 0.0902	91.6	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	4.33	110	mg/kg	15 / 16	0.0902 - 0.0902	110	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	3.96	100	mg/kg	15 / 16	0.0902 - 0.0902	100	4.1	TCEQ	YES	ASL
192-97-2	Benzo(e)lovrene	3.21	79.7	mg/kg	15 / 16	0.0902 - 0.0902	79.7	180	TCEQ	no	BSL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 074 Cont.	191-24-2	Benzo(g,h,i)perylene	2.92	72.8	mg/kg	15 / 16	0.0902 - 0.0902	72.8	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	2.12	54.1	mg/kg	15 / 16	0.0902 - 0.0902	54.1	3.9	TCEQ	YES	ASL
	207-08-9	Benzo(k)fluoranthene	2.03	52.8	mg/kg	15 / 16	0.0902 - 0.0902	52.8	42	TCEQ	YES	ASL
	218-01-9	Chrysene	3.74	105	mg/kg	15 / 16	0.0902 - 0.0902	105	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.637	16.7	mg/kg	15 / 16	0.0902 - 0.0902	16.7	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	4.85	150	mg/kg	15 / 16	0.0902 - 0.0902	150	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.13	2.76	mg/kg	14 / 16	0.0902 - 0.141	2.76	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	2.37	59.4	mg/kg	15 / 16	0.0902 - 0.0902	59.4	4.2	TCEQ	YES	ASL
	85-01-8	Phenanthrene	1.59	59.8	mg/kg	15 / 16	0.0902 - 0.0902	59.8	170	TCEQ	no	BSL
	129-00-0	Pyrene	4.37	128	mg/kg	15 / 16	0.0902 - 0.0902	128	170	TCEQ	no	BSL
DU 077	Inorganics											
	7439-92-1	Lead	3.38	39.8	mg/kg	15 / 15	--	39.8	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.0655	0.0918	mg/kg	2 / 15	0.0735 - 0.0749	0.0918	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0547	0.175	mg/kg	3 / 15	0.0735 - 0.0749	0.175	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.488	1.66	mg/kg	3 / 15	0.0735 - 0.0749	1.66	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0523	2.51	mg/kg	5 / 15	0.0735 - 0.0749	2.51	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.05	2.26	mg/kg	4 / 15	0.0735 - 0.0749	2.26	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.47	1.84	mg/kg	3 / 15	0.0735 - 0.0749	1.84	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.449	1.89	mg/kg	3 / 15	0.0735 - 0.0749	1.89	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.269	1.08	mg/kg	3 / 15	0.0735 - 0.0749	1.08	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.273	1.04	mg/kg	3 / 15	0.0735 - 0.0749	1.04	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0514	2.19	mg/kg	5 / 15	0.0735 - 0.0749	2.19	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0509	0.24	mg/kg	3 / 15	0.0735 - 0.0749	0.24	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0969	2.71	mg/kg	5 / 15	0.0735 - 0.0749	2.71	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.361	1.5	mg/kg	3 / 15	0.0735 - 0.0749	1.5	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0586	0.88	mg/kg	4 / 15	0.0735 - 0.0749	0.88	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0837	2.45	mg/kg	5 / 15	0.0735 - 0.0749	2.45	170	TCEQ	no	BSL
DU 080	Inorganics											
	7439-92-1	Lead	4.15	60.7	mg/kg	12 / 12	--	60.7	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0804	0.0804	mg/kg	1 / 12	0.0729 - 0.0749	0.0804	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0825	0.187	mg/kg	2 / 12	0.0729 - 0.0749	0.187	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0647	2.14	mg/kg	5 / 12	0.0729 - 0.0748	2.14	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0827	2.85	mg/kg	5 / 12	0.0729 - 0.0748	2.85	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.078	2.65	mg/kg	5 / 12	0.0729 - 0.0748	2.65	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0644	2.11	mg/kg	5 / 12	0.0729 - 0.0748	2.11	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0665	2.27	mg/kg	5 / 12	0.0729 - 0.0748	2.27	180	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 080 Cont.	205-82-3	Benzo(j)fluoranthene	0.0648	1.38	mg/kg	4 / 12	0.0729 - 0.0749	1.38	3.9	TCEQ	no	BSL	
	207-08-9	Benzo(k)fluoranthene	0.0684	1.39	mg/kg	4 / 12	0.0729 - 0.0749	1.39	42	TCEQ	no	BSL	
	218-01-9	Chrysene	0.0803	2.67	mg/kg	5 / 12	0.0729 - 0.0748	2.67	410	TCEQ	no	BSL	
	53-70-3	Dibenzo(a,h)anthracene	0.0604	0.492	mg/kg	3 / 12	0.0729 - 0.0749	0.492	0.4	TCEQ	YES	ASL	
	206-44-0	Fluoranthene	0.123	3.21	mg/kg	5 / 12	0.0729 - 0.0748	3.21	230	TCEQ	no	BSL	
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0552	1.93	mg/kg	5 / 12	0.0729 - 0.0748	1.93	4.2	TCEQ	no	BSL	
	85-01-8	Phenanthrene	0.06	1.06	mg/kg	5 / 12	0.0729 - 0.0748	1.06	170	TCEQ	no	BSL	
	129-00-0	Pyrene	0.111	2.93	mg/kg	5 / 12	0.0729 - 0.0748	2.93	170	TCEQ	no	BSL	
DU 082	Inorganics 7439-92-1	Lead	4.63	36.2	mg/kg	12 / 12	--	36.2	50	TCEQ	no	BSL	
	PAHs 83-32-9	Acenaphthene	0.0646	0.109	mg/kg	2 / 12	0.0709 - 0.0748	0.109	300	TCEQ	no	BSL	
	120-12-7	Anthracene	0.0532	0.689	mg/kg	5 / 12	0.0732 - 0.0748	0.689	1800	TCEQ	no	BSL	
	56-55-3	Benzo(a)anthracene	0.0528	3.26	mg/kg	9 / 12	0.0732 - 0.0746	3.26	4.1	TCEQ	no	BSL	
	50-32-8	Benzo(a)pyrene	0.0736	3.25	mg/kg	9 / 12	0.0732 - 0.0746	3.25	0.41	TCEQ	YES	ASL	
	205-99-2	Benzo(b)fluoranthene	0.0699	3.01	mg/kg	9 / 12	0.0732 - 0.0746	3.01	4.1	TCEQ	no	BSL	
	192-97-2	Benzo(e)pyrene	0.0627	2.35	mg/kg	9 / 12	0.0732 - 0.0746	2.35	180	TCEQ	no	BSL	
	191-24-2	Benzo(g,h,i)perylene	0.0694	2.03	mg/kg	9 / 12	0.0732 - 0.0746	2.03	180	TCEQ	no	BSL	
	205-82-3	Benzo(j)fluoranthene	0.0536	1.67	mg/kg	9 / 12	0.0732 - 0.0746	1.67	3.9	TCEQ	no	BSL	
	207-08-9	Benzo(k)fluoranthene	0.0592	1.57	mg/kg	8 / 12	0.0732 - 0.0746	1.57	42	TCEQ	no	BSL	
	218-01-9	Chrysene	0.0653	3.58	mg/kg	9 / 12	0.0732 - 0.0746	3.58	410	TCEQ	no	BSL	
	53-70-3	Dibenzo(a,h)anthracene	0.0532	0.498	mg/kg	6 / 12	0.0732 - 0.0748	0.498	0.4	TCEQ	YES	ASL	
	206-44-0	Fluoranthene	0.0618	6.11	mg/kg	9 / 12	0.0732 - 0.0746	6.11	230	TCEQ	no	BSL	
	86-73-7	Fluorene	0.0576	0.0992	mg/kg	2 / 12	0.0709 - 0.0748	0.0992	230	TCEQ	no	BSL	
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0549	1.71	mg/kg	9 / 12	0.0732 - 0.0746	1.71	4.2	TCEQ	no	BSL	
	85-01-8	Phenanthrene	0.0809	2.88	mg/kg	8 / 12	0.0732 - 0.0746	2.88	170	TCEQ	no	BSL	
	129-00-0	Pyrene	0.0616	4.83	mg/kg	9 / 12	0.0732 - 0.0746	4.83	170	TCEQ	no	BSL	
	DU 083	Inorganics 7439-92-1	Lead	4.31	67.6	mg/kg	12 / 12	--	67.6	50	TCEQ	YES	ASL
		PAHs 83-32-9	Acenaphthene	0.0556	0.0662	mg/kg	3 / 12	0.0716 - 0.075	0.0662	300	TCEQ	no	BSL
120-12-7		Anthracene	0.15	0.388	mg/kg	5 / 12	0.0735 - 0.075	0.388	1800	TCEQ	no	BSL	
56-55-3		Benzo(a)anthracene	0.0566	1.94	mg/kg	7 / 12	0.0735 - 0.075	1.94	4.1	TCEQ	no	BSL	
50-32-8		Benzo(a)pyrene	0.0669	2.14	mg/kg	7 / 12	0.0735 - 0.075	2.14	0.41	TCEQ	YES	ASL	
205-99-2		Benzo(b)fluoranthene	0.359	1.97	mg/kg	6 / 12	0.0497 - 0.075	1.97	4.1	TCEQ	no	BSL	
192-97-2		Benzo(e)pyrene	0.0549	1.58	mg/kg	7 / 12	0.0735 - 0.075	1.58	180	TCEQ	no	BSL	
191-24-2		Benzo(g,h,i)perylene	0.0521	1.43	mg/kg	7 / 12	0.0735 - 0.075	1.43	180	TCEQ	no	BSL	
205-82-3		Benzo(j)fluoranthene	0.201	1.04	mg/kg	6 / 12	0.0735 - 0.075	1.04	3.9	TCEQ	no	BSL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 083 Cont.	207-08-9	Benzo(k)fluoranthene	0.189	1.01	mg/kg	6 / 12	0.0735 - 0.075	1.01	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.068	2.18	mg/kg	7 / 12	0.0735 - 0.075	2.18	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.065	0.356	mg/kg	6 / 12	0.0735 - 0.075	0.356	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.108	3.86	mg/kg	7 / 12	0.0735 - 0.075	3.86	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0536	0.0536	mg/kg	1 / 12	0.0716 - 0.075	0.0536	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.211	1.31	mg/kg	6 / 12	0.0735 - 0.075	1.31	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0691	1.75	mg/kg	6 / 12	0.0735 - 0.075	1.75	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0923	3.08	mg/kg	7 / 12	0.0735 - 0.075	3.08	170	TCEQ	no	BSL
DU 084	Inorganics											
	7439-92-1	Lead	5.35	92.3	mg/kg	12 / 12	--	92.3	50	TCEQ	YES	ASL
	PAHs											
	120-12-7	Anthracene	0.0521	0.176	mg/kg	3 / 12	0.0691 - 0.739	0.176	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0983	0.749	mg/kg	8 / 12	0.0691 - 0.739	0.749	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.138	0.882	mg/kg	9 / 12	0.0691 - 0.0728	0.882	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.131	0.776	mg/kg	9 / 12	0.0691 - 0.0728	0.776	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.108	0.623	mg/kg	8 / 12	0.0691 - 0.739	0.623	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.109	0.704	mg/kg	9 / 12	0.0691 - 0.0728	0.704	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0748	0.458	mg/kg	8 / 12	0.0691 - 0.739	0.458	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0715	0.448	mg/kg	8 / 12	0.0691 - 0.739	0.448	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.125	0.888	mg/kg	8 / 12	0.0691 - 0.739	0.888	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0552	0.203	mg/kg	4 / 12	0.0691 - 0.739	0.203	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0539	1.24	mg/kg	9 / 12	0.0691 - 0.739	1.24	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0872	0.591	mg/kg	8 / 12	0.0691 - 0.739	0.591	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0604	0.789	mg/kg	8 / 12	0.0691 - 0.739	0.789	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0495	1.12	mg/kg	9 / 12	0.0691 - 0.739	1.12	170	TCEQ	no	BSL
DU 087	Inorganics											
	7439-92-1	Lead	6.72	30.8	mg/kg	12 / 12	--	30.8	50	TCEQ	no	BSL
	PAHs											
	83-32-9	Acenaphthene	0.135	0.135	mg/kg	1 / 12	0.0707 - 0.346	0.135	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0681	0.237	mg/kg	2 / 12	0.0707 - 0.0747	0.237	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0767	1.63	mg/kg	8 / 12	0.0707 - 0.0742	1.63	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0613	1.9	mg/kg	9 / 12	0.073 - 0.0742	1.9	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0613	1.87	mg/kg	9 / 12	0.073 - 0.0742	1.87	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.104	1.39	mg/kg	8 / 12	0.0707 - 0.0742	1.39	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0626	1.28	mg/kg	9 / 12	0.073 - 0.0742	1.28	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0611	0.958	mg/kg	8 / 12	0.0707 - 0.0742	0.958	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0583	1	mg/kg	8 / 12	0.0707 - 0.0742	1	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0579	1.9	mg/kg	9 / 12	0.073 - 0.0742	1.9	410	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 087 Cont.	53-70-3	Dibenzo(a,h)anthracene	0.0651	0.291	mg/kg	4 / 12	0.0707 - 0.0747	0.291	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0754	2.81	mg/kg	9 / 12	0.073 - 0.0742	2.81	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.086	1.05	mg/kg	8 / 12	0.0707 - 0.0742	1.05	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0769	1.17	mg/kg	7 / 12	0.0707 - 0.0744	1.17	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0668	2.39	mg/kg	9 / 12	0.073 - 0.0742	2.39	170	TCEQ	no	BSL
DU 095	Inorganics 7439-92-1	Lead	3.86	212	mg/kg	12 / 12	--	212	50	TCEQ	YES	ASL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0858	0.0858	mg/kg	1 / 12	0.069 - 0.0749	0.0858	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.119	0.119	mg/kg	1 / 12	0.069 - 0.0749	0.119	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.115	0.115	mg/kg	1 / 12	0.069 - 0.0749	0.115	4.1	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.102	0.102	mg/kg	1 / 12	0.069 - 0.0749	0.102	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0569	0.0569	mg/kg	1 / 12	0.069 - 0.0749	0.0569	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0558	0.0558	mg/kg	1 / 12	0.069 - 0.0749	0.0558	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.1	0.1	mg/kg	1 / 12	0.069 - 0.0749	0.1	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0537	0.104	mg/kg	2 / 12	0.069 - 0.0749	0.104	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0826	0.0826	mg/kg	1 / 12	0.069 - 0.0749	0.0826	4.2	TCEQ	no	BSL
	129-00-0	Pyrene	0.0497	0.105	mg/kg	2 / 12	0.069 - 0.0749	0.105	170	TCEQ	no	BSL
DU 100	Inorganics 7439-92-1	Lead	5.19	14.6	mg/kg	12 / 12	--	14.6	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0666	0.0666	mg/kg	1 / 12	0.0689 - 0.0746	0.0666	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0605	0.237	mg/kg	3 / 12	0.0689 - 0.0746	0.237	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.071	0.254	mg/kg	3 / 12	0.0689 - 0.0746	0.254	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0785	0.228	mg/kg	3 / 12	0.0689 - 0.0746	0.228	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0572	0.191	mg/kg	3 / 12	0.0689 - 0.0746	0.191	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0603	0.185	mg/kg	3 / 12	0.0689 - 0.0746	0.185	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.109	0.109	mg/kg	1 / 12	0.0689 - 0.0746	0.109	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.11	0.11	mg/kg	1 / 12	0.0689 - 0.0746	0.11	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0666	0.277	mg/kg	3 / 12	0.0689 - 0.0746	0.277	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0983	0.508	mg/kg	3 / 12	0.0689 - 0.0746	0.508	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0585	0.161	mg/kg	3 / 12	0.0689 - 0.0746	0.161	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0541	0.295	mg/kg	3 / 12	0.0689 - 0.0746	0.295	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0862	0.411	mg/kg	3 / 12	0.0689 - 0.0746	0.411	170	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 103	Inorganics											
	7439-92-1	Lead	8.08	120	mg/kg	12 / 12	--	120	50	TCEQ	YES	ASL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0521	0.253	mg/kg	6 / 12	0.0704 - 0.0746	0.253	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0616	0.348	mg/kg	6 / 12	0.0704 - 0.0746	0.348	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0642	0.348	mg/kg	6 / 12	0.0704 - 0.0746	0.348	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0643	0.237	mg/kg	4 / 12	0.0704 - 0.0746	0.237	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0795	0.246	mg/kg	4 / 12	0.0704 - 0.0746	0.246	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0617	0.141	mg/kg	3 / 12	0.0704 - 0.0746	0.141	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0598	0.188	mg/kg	4 / 12	0.0704 - 0.0746	0.188	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0531	0.292	mg/kg	5 / 12	0.0704 - 0.0746	0.292	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0548	0.0548	mg/kg	1 / 12	0.0704 - 0.0746	0.0548	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0477	0.348	mg/kg	7 / 12	0.0704 - 0.0746	0.348	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0577	0.261	mg/kg	6 / 12	0.0704 - 0.0746	0.261	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0671	0.108	mg/kg	3 / 12	0.0704 - 0.0746	0.108	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0511	0.334	mg/kg	6 / 12	0.0704 - 0.0746	0.334	170	TCEQ	no	BSL
DU 105	Inorganics											
	7439-92-1	Lead	5.34	73.6	mg/kg	12 / 12	--	73.6	50	TCEQ	YES	ASL
	PAHs											
	120-12-7	Anthracene	0.0566	0.0913	mg/kg	2 / 12	0.071 - 0.0749	0.0913	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.239	0.782	mg/kg	3 / 12	0.071 - 0.0749	0.782	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.321	1.05	mg/kg	3 / 12	0.071 - 0.0749	1.05	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.299	0.941	mg/kg	3 / 12	0.071 - 0.0749	0.941	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.25	0.768	mg/kg	3 / 12	0.071 - 0.0749	0.768	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.263	0.836	mg/kg	3 / 12	0.071 - 0.0749	0.836	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.152	0.474	mg/kg	3 / 12	0.071 - 0.0749	0.474	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.152	0.454	mg/kg	3 / 12	0.071 - 0.0749	0.454	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.305	0.937	mg/kg	3 / 12	0.071 - 0.0749	0.937	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.136	0.158	mg/kg	2 / 12	0.071 - 0.0749	0.158	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.393	1.41	mg/kg	3 / 12	0.071 - 0.0749	1.41	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.204	0.667	mg/kg	3 / 12	0.071 - 0.0749	0.667	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.132	0.625	mg/kg	3 / 12	0.071 - 0.0749	0.625	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.353	1.22	mg/kg	3 / 12	0.071 - 0.0749	1.22	170	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)	COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 110	Inorganics											
	7439-92-1	Lead	6.99	25.8	mg/kg	12 / 12	--	25.8	50	TCEQ	no	BSL
	PAHs											
	120-12-7	Anthracene	0.0602	0.0643	mg/kg	2 / 12	0.07 - 0.0749	0.0643	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0981	0.123	mg/kg	2 / 12	0.07 - 0.0749	0.123	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0501	0.152	mg/kg	3 / 12	0.07 - 0.0749	0.152	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.131	0.178	mg/kg	2 / 12	0.07 - 0.0749	0.178	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0627	0.0769	mg/kg	2 / 12	0.07 - 0.0749	0.0769	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0512	0.156	mg/kg	3 / 12	0.07 - 0.0749	0.156	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.05	0.05	mg/kg	1 / 12	0.07 - 0.0749	0.05	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0853	0.107	mg/kg	2 / 12	0.07 - 0.0749	0.107	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0716	0.144	mg/kg	3 / 12	0.07 - 0.0749	0.144	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0734	0.0814	mg/kg	2 / 12	0.07 - 0.0749	0.0814	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0915	0.117	mg/kg	2 / 12	0.07 - 0.0749	0.117	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.105	0.147	mg/kg	2 / 12	0.07 - 0.0749	0.147	4.2	TCEQ	no	BSL
85-01-8	Phenanthrene	0.0552	0.0552	mg/kg	1 / 12	0.07 - 0.0749	0.0552	170	TCEQ	no	BSL	
129-00-0	Pyrene	0.0836	0.112	mg/kg	2 / 12	0.07 - 0.0749	0.112	170	TCEQ	no	BSL	
DU 115	Inorganics											
	7439-92-1	Lead	5.37	153	mg/kg	10 / 10	--	153	50	TCEQ	YES	ASL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0495	0.224	mg/kg	3 / 10	0.0716 - 0.0748	0.224	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0541	0.276	mg/kg	3 / 10	0.0716 - 0.0748	0.276	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0524	0.234	mg/kg	4 / 10	0.0716 - 0.0748	0.234	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0504	0.196	mg/kg	3 / 10	0.0716 - 0.0748	0.196	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0547	0.22	mg/kg	3 / 10	0.0716 - 0.0748	0.22	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.054	0.143	mg/kg	2 / 10	0.0716 - 0.0748	0.143	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0565	0.136	mg/kg	2 / 10	0.0716 - 0.0748	0.136	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0571	0.322	mg/kg	3 / 10	0.0716 - 0.0748	0.322	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0511	0.0511	mg/kg	1 / 10	0.0716 - 0.0748	0.0511	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0553	0.392	mg/kg	4 / 10	0.0716 - 0.0748	0.392	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0783	0.181	mg/kg	2 / 10	0.0716 - 0.0748	0.181	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0526	0.2	mg/kg	3 / 10	0.0716 - 0.0748	0.2	170	TCEQ	no	BSL
129-00-0	Pyrene	0.062	0.404	mg/kg	4 / 10	0.0716 - 0.0748	0.404	170	TCEQ	no	BSL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 118	Inorganics 7439-92-1	Lead	5.51	47.6	mg/kg	12 / 12	--	47.6	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.0506	0.122	mg/kg	3 / 12	0.0694 - 0.0749	0.122	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0599	0.13	mg/kg	3 / 12	0.0694 - 0.0749	0.13	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0729	0.139	mg/kg	3 / 12	0.0694 - 0.0749	0.139	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.078	0.0797	mg/kg	2 / 12	0.0694 - 0.0749	0.0797	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0709	0.129	mg/kg	3 / 12	0.0694 - 0.0749	0.129	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0511	0.0525	mg/kg	2 / 12	0.0694 - 0.0749	0.0525	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0504	0.0786	mg/kg	2 / 12	0.0694 - 0.0749	0.0786	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0597	0.14	mg/kg	3 / 12	0.0694 - 0.0749	0.14	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0532	0.0532	mg/kg	1 / 12	0.0694 - 0.0749	0.0532	0.4	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0501	0.21	mg/kg	3 / 12	0.0694 - 0.0749	0.21	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0616	0.113	mg/kg	3 / 12	0.0694 - 0.0749	0.113	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.112	0.117	mg/kg	2 / 12	0.0694 - 0.0749	0.117	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.161	0.173	mg/kg	2 / 12	0.0694 - 0.0749	0.173	170	TCEQ	no	BSL
DU 125	Inorganics 7439-92-1	Lead	6	20.4	mg/kg	12 / 12	--	20.4	50	TCEQ	no	BSL
	PAHs 56-55-3	Benzo(a)anthracene	0.0912	0.162	mg/kg	3 / 12	0.0688 - 0.0746	0.162	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.132	0.208	mg/kg	3 / 12	0.0688 - 0.0746	0.208	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.127	0.203	mg/kg	3 / 12	0.0688 - 0.0746	0.203	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.11	0.168	mg/kg	3 / 12	0.0688 - 0.0746	0.168	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.123	0.207	mg/kg	3 / 12	0.0688 - 0.0746	0.207	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0637	0.103	mg/kg	3 / 12	0.0688 - 0.0746	0.103	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0636	0.102	mg/kg	3 / 12	0.0688 - 0.0746	0.102	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.117	0.198	mg/kg	3 / 12	0.0688 - 0.0746	0.198	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.155	0.283	mg/kg	3 / 12	0.0688 - 0.0746	0.283	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0987	0.15	mg/kg	3 / 12	0.0688 - 0.0746	0.15	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0617	0.127	mg/kg	3 / 12	0.0688 - 0.0746	0.127	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.142	0.248	mg/kg	3 / 12	0.0688 - 0.0746	0.248	170	TCEQ	no	BSL
	DU 129	Inorganics 7439-92-1	Lead	6.45	25.8	mg/kg	12 / 12	--	25.8	50	TCEQ	no
PAHs 56-55-3		Benzo(a)anthracene	0.0515	0.143	mg/kg	3 / 12	0.0701 - 0.0746	0.143	4.1	TCEQ	no	BSL
50-32-8		Benzo(a)pyrene	0.053	0.164	mg/kg	3 / 12	0.0701 - 0.0744	0.164	0.41	TCEQ	no	BSL
205-99-2		Benzo(b)fluoranthene	0.0496	0.164	mg/kg	4 / 12	0.0701 - 0.0744	0.164	4.1	TCEQ	no	BSL
192-97-2		Benzo(e)lovrene	0.0994	0.124	mg/kg	2 / 12	0.0701 - 0.0746	0.124	180	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 129 Cont.	191-24-2	Benzo(g,h,i)perylene	0.119	0.15	mg/kg	2 / 12	0.0701 - 0.0746	0.15	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0677	0.0839	mg/kg	2 / 12	0.0701 - 0.0746	0.0839	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0693	0.085	mg/kg	2 / 12	0.0701 - 0.0746	0.085	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0575	0.175	mg/kg	3 / 12	0.0701 - 0.0746	0.175	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0617	0.292	mg/kg	4 / 12	0.0701 - 0.0744	0.292	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.102	0.128	mg/kg	2 / 12	0.0701 - 0.0746	0.128	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0691	0.147	mg/kg	3 / 12	0.0701 - 0.0746	0.147	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0584	0.244	mg/kg	4 / 12	0.0701 - 0.0744	0.244	170	TCEQ	no	BSL
DU 132	Inorganics 7439-92-1	Lead	7.4	122	mg/kg	12 / 12	--	122	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0576	0.131	mg/kg	3 / 12	0.0694 - 0.0747	0.131	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0984	0.791	mg/kg	4 / 12	0.0694 - 0.0745	0.791	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0579	3.87	mg/kg	11 / 12	0.0698 - 0.0698	3.87	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0602	4.24	mg/kg	11 / 12	0.0698 - 0.0698	4.24	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0592	4.19	mg/kg	11 / 12	0.0698 - 0.0698	4.19	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	0.105	3.13	mg/kg	9 / 12	0.0698 - 0.0743	3.13	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.105	2.98	mg/kg	9 / 12	0.0698 - 0.0743	2.98	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0637	1.99	mg/kg	9 / 12	0.0698 - 0.0743	1.99	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0655	1.86	mg/kg	9 / 12	0.0698 - 0.0743	1.86	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0634	4.77	mg/kg	11 / 12	0.0698 - 0.0698	4.77	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0494	0.49	mg/kg	5 / 12	0.0694 - 0.0745	0.49	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.0975	6.56	mg/kg	11 / 12	0.0698 - 0.0698	6.56	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0595	0.133	mg/kg	2 / 12	0.0694 - 0.0747	0.133	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0475	2.96	mg/kg	11 / 12	0.0698 - 0.0698	2.96	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0532	3.54	mg/kg	11 / 12	0.0698 - 0.0698	3.54	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0819	5.32	mg/kg	11 / 12	0.0698 - 0.0698	5.32	170	TCEQ	no	BSL
	DU 133	Inorganics 7439-92-1	Lead	5.24	20.9	mg/kg	12 / 12	--	20.9	50	TCEQ	no
PAHs												
56-55-3		Benzo(a)anthracene	0.0487	0.154	mg/kg	5 / 12	0.0687 - 0.0744	0.154	4.1	TCEQ	no	BSL
50-32-8		Benzo(a)pyrene	0.0589	0.15	mg/kg	5 / 12	0.0687 - 0.0744	0.15	0.41	TCEQ	no	BSL
205-99-2		Benzo(b)fluoranthene	0.0574	0.133	mg/kg	5 / 12	0.0687 - 0.0744	0.133	4.1	TCEQ	no	BSL
192-97-2		Benzo(e)pyrene	0.103	0.107	mg/kg	2 / 12	0.0687 - 0.0744	0.107	180	TCEQ	no	BSL
191-24-2		Benzo(g,h,i)perylene	0.0502	0.107	mg/kg	3 / 12	0.0687 - 0.0744	0.107	180	TCEQ	no	BSL
205-82-3		Benzo(j)fluoranthene	0.0671	0.0675	mg/kg	2 / 12	0.0687 - 0.0744	0.0675	3.9	TCEQ	no	BSL
207-08-9		Benzo(k)fluoranthene	0.077	0.0808	mg/kg	2 / 12	0.0687 - 0.0744	0.0808	42	TCEQ	no	BSL
218-01-9		Chrysene	0.0554	0.15	mg/kg	5 / 12	0.0687 - 0.0744	0.15	410	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 133 Cont.	206-44-0	Fluoranthene	0.0682	0.291	mg/kg	5 / 12	0.0687 - 0.0744	0.291	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0503	0.106	mg/kg	4 / 12	0.0687 - 0.0744	0.106	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.123	0.189	mg/kg	2 / 12	0.0687 - 0.0744	0.189	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0637	0.25	mg/kg	5 / 12	0.0687 - 0.0744	0.25	170	TCEQ	no	BSL
DU 134	Inorganics											
	7439-92-1	Lead	4.58	594	mg/kg	12 / 12	--	594	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0571	0.109	mg/kg	2 / 12	0.0693 - 0.0749	0.109	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0763	0.425	mg/kg	4 / 12	0.0693 - 0.0749	0.425	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.819	2.79	mg/kg	4 / 12	0.0693 - 0.0749	2.79	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0532	3.4	mg/kg	5 / 12	0.0693 - 0.0749	3.4	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0463	3.18	mg/kg	6 / 12	0.072 - 0.0749	3.18	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.699	2.42	mg/kg	4 / 12	0.0693 - 0.0749	2.42	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0496	2.63	mg/kg	5 / 12	0.0693 - 0.0749	2.63	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.457	1.59	mg/kg	4 / 12	0.0693 - 0.0749	1.59	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.449	1.6	mg/kg	4 / 12	0.0693 - 0.0749	1.6	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0482	3.33	mg/kg	6 / 12	0.072 - 0.0749	3.33	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.144	0.552	mg/kg	4 / 12	0.0693 - 0.0749	0.552	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.0564	4.03	mg/kg	6 / 12	0.072 - 0.0749	4.03	230	TCEQ	no	BSL
	86-73-7	Fluorene	0.0636	0.0636	mg/kg	1 / 12	0.0693 - 0.0749	0.0636	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.587	2.17	mg/kg	4 / 12	0.0693 - 0.0749	2.17	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.44	2.28	mg/kg	4 / 12	0.0693 - 0.0749	2.28	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0517	3.3	mg/kg	6 / 12	0.072 - 0.0749	3.3	170	TCEQ	no	BSL
DU 140	Inorganics											
	7439-92-1	Lead	8.48	77.1	mg/kg	12 / 12	--	77.1	50	TCEQ	YES	ASL
	PAHs											
	83-32-9	Acenaphthene	0.0738	0.177	mg/kg	5 / 12	0.0693 - 0.0747	0.177	300	TCEQ	no	BSL
	120-12-7	Anthracene	0.0494	1.24	mg/kg	6 / 12	0.0711 - 0.0747	1.24	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.0744	6.03	mg/kg	10 / 12	0.0727 - 0.0747	6.03	4.1	TCEQ	YES	ASL
	50-32-8	Benzo(a)pyrene	0.101	6.28	mg/kg	10 / 12	0.0727 - 0.0747	6.28	0.41	TCEQ	YES	ASL
	205-99-2	Benzo(b)fluoranthene	0.0885	6.07	mg/kg	10 / 12	0.0727 - 0.0747	6.07	4.1	TCEQ	YES	ASL
	192-97-2	Benzo(e)pyrene	0.0775	4.34	mg/kg	10 / 12	0.0727 - 0.0747	4.34	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0876	4.18	mg/kg	10 / 12	0.0727 - 0.0747	4.18	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0693	3.22	mg/kg	9 / 12	0.0727 - 0.0747	3.22	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0741	3.14	mg/kg	9 / 12	0.0727 - 0.0747	3.14	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0901	6.78	mg/kg	10 / 12	0.0727 - 0.0747	6.78	410	TCEQ	no	BSL
	53-70-3	Dibenzo(a,h)anthracene	0.0908	1.01	mg/kg	6 / 12	0.0693 - 0.0747	1.01	0.4	TCEQ	YES	ASL
	206-44-0	Fluoranthene	0.115	11.7	mg/kg	10 / 12	0.0727 - 0.0747	11.7	230	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)	
DU 140 Cont.	86-73-7	Fluorene	0.0745	0.144	mg/kg	2 / 12	0.0693 - 0.0747	0.144	230	TCEQ	no	BSL	
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0652	3.64	mg/kg	10 / 12	0.0727 - 0.0747	3.64	4.2	TCEQ	no	BSL	
	85-01-8	Phenanthrene	0.0965	6.49	mg/kg	9 / 12	0.0727 - 0.0747	6.49	170	TCEQ	no	BSL	
	129-00-0	Pyrene	0.107	9.4	mg/kg	10 / 12	0.0727 - 0.0747	9.4	170	TCEQ	no	BSL	
DU 143	Inorganics 7439-92-1	Lead	5.35	115	mg/kg	12 / 12	--	115	50	TCEQ	YES	ASL	
	PAHs 56-55-3	Benzo(a)anthracene	0.0987	0.295	mg/kg	4 / 12	0.0686 - 0.0749	0.295	4.1	TCEQ	no	BSL	
	50-32-8	Benzo(a)pyrene	0.113	0.508	mg/kg	4 / 12	0.0686 - 0.0749	0.508	0.41	TCEQ	YES	ASL	
	205-99-2	Benzo(b)fluoranthene	0.111	0.495	mg/kg	4 / 12	0.0686 - 0.0749	0.495	4.1	TCEQ	no	BSL	
	192-97-2	Benzo(e)pyrene	0.0892	0.39	mg/kg	4 / 12	0.0686 - 0.0749	0.39	180	TCEQ	no	BSL	
	191-24-2	Benzo(g,h,i)perylene	0.083	0.38	mg/kg	4 / 12	0.0686 - 0.0749	0.38	180	TCEQ	no	BSL	
	205-82-3	Benzo(j)fluoranthene	0.0591	0.238	mg/kg	4 / 12	0.0686 - 0.0749	0.238	3.9	TCEQ	no	BSL	
	207-08-9	Benzo(k)fluoranthene	0.0598	0.246	mg/kg	4 / 12	0.0686 - 0.0749	0.246	42	TCEQ	no	BSL	
	218-01-9	Chrysene	0.121	0.406	mg/kg	4 / 12	0.0686 - 0.0749	0.406	410	TCEQ	no	BSL	
	53-70-3	Dibenzo(a,h)anthracene	0.0972	0.0972	mg/kg	1 / 12	0.0686 - 0.0749	0.0972	0.4	TCEQ	no	BSL	
	206-44-0	Fluoranthene	0.124	0.32	mg/kg	4 / 12	0.0686 - 0.0749	0.32	230	TCEQ	no	BSL	
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0742	0.359	mg/kg	4 / 12	0.0686 - 0.0749	0.359	4.2	TCEQ	no	BSL	
	85-01-8	Phenanthrene	0.0834	0.0918	mg/kg	2 / 12	0.0686 - 0.0749	0.0918	170	TCEQ	no	BSL	
	129-00-0	Pyrene	0.133	0.327	mg/kg	4 / 12	0.0686 - 0.0749	0.327	170	TCEQ	no	BSL	
	DU 150	Inorganics 7439-92-1	Lead	5.78	33.4	mg/kg	12 / 12	--	33.4	50	TCEQ	no	BSL
		PAHs 83-32-9	Acenaphthene	0.131	0.131	mg/kg	1 / 12	0.0708 - 0.0746	0.131	300	TCEQ	no	BSL
56-55-3		Benzo(a)anthracene	0.0908	0.0908	mg/kg	1 / 12	0.0708 - 0.0746	0.0908	4.1	TCEQ	no	BSL	
50-32-8		Benzo(a)pyrene	0.117	0.117	mg/kg	1 / 12	0.0708 - 0.0746	0.117	0.41	TCEQ	no	BSL	
205-99-2		Benzo(b)fluoranthene	0.113	0.113	mg/kg	1 / 12	0.0708 - 0.0746	0.113	4.1	TCEQ	no	BSL	
192-97-2		Benzo(e)pyrene	0.0928	0.0928	mg/kg	1 / 12	0.0708 - 0.0746	0.0928	180	TCEQ	no	BSL	
191-24-2		Benzo(g,h,i)perylene	0.112	0.112	mg/kg	1 / 12	0.0708 - 0.0746	0.112	180	TCEQ	no	BSL	
205-82-3		Benzo(j)fluoranthene	0.0586	0.0586	mg/kg	1 / 12	0.0708 - 0.0746	0.0586	3.9	TCEQ	no	BSL	
207-08-9		Benzo(k)fluoranthene	0.0595	0.0595	mg/kg	1 / 12	0.0708 - 0.0746	0.0595	42	TCEQ	no	BSL	
218-01-9		Chrysene	0.113	0.113	mg/kg	1 / 12	0.0708 - 0.0746	0.113	410	TCEQ	no	BSL	
206-44-0		Fluoranthene	0.143	0.143	mg/kg	1 / 12	0.0708 - 0.0746	0.143	230	TCEQ	no	BSL	
193-39-5		Indeno(1,2,3-cd)pyrene	0.0897	0.0897	mg/kg	1 / 12	0.0708 - 0.0746	0.0897	4.2	TCEQ	no	BSL	
129-00-0		Pyrene	0.133	0.133	mg/kg	1 / 12	0.0708 - 0.0746	0.133	170	TCEQ	no	BSL	

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 156	Inorganics 7439-92-1	Lead	5.11	40.8	mg/kg	12 / 12	--	40.8	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0512	0.123	mg/kg	3 / 12	0.0714 - 0.0749	0.123	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0693	0.164	mg/kg	3 / 12	0.0714 - 0.0749	0.164	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0692	0.157	mg/kg	3 / 12	0.0714 - 0.0749	0.157	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0567	0.127	mg/kg	3 / 12	0.0714 - 0.0749	0.127	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0619	0.144	mg/kg	3 / 12	0.0714 - 0.0749	0.144	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.0709	0.0802	mg/kg	2 / 12	0.0708 - 0.0749	0.0802	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0714	0.0768	mg/kg	2 / 12	0.0708 - 0.0749	0.0768	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0616	0.146	mg/kg	3 / 12	0.0714 - 0.0749	0.146	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0822	0.212	mg/kg	3 / 12	0.0714 - 0.0749	0.212	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0549	0.122	mg/kg	3 / 12	0.0714 - 0.0749	0.122	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.1	0.1	mg/kg	1 / 12	0.0708 - 0.0749	0.1	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0734	0.182	mg/kg	3 / 12	0.0714 - 0.0749	0.182	170	TCEQ	no	BSL
DU 172	Inorganics 7439-92-1	Lead	5.63	11.7	mg/kg	12 / 12	--	11.7	50	TCEQ	no	BSL
	PAHs											
	56-55-3	Benzo(a)anthracene	0.0555	0.0798	mg/kg	6 / 12	0.073 - 0.0746	0.0798	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0651	0.095	mg/kg	6 / 12	0.073 - 0.0746	0.095	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0533	0.103	mg/kg	7 / 12	0.073 - 0.0746	0.103	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.0527	0.0575	mg/kg	2 / 12	0.073 - 0.0749	0.0575	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0498	0.0761	mg/kg	4 / 12	0.073 - 0.0749	0.0761	180	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.0503	0.0604	mg/kg	3 / 12	0.073 - 0.0749	0.0604	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.0526	0.0799	mg/kg	5 / 12	0.073 - 0.0749	0.0799	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.0494	0.101	mg/kg	7 / 12	0.073 - 0.0746	0.101	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.0575	0.09	mg/kg	6 / 12	0.073 - 0.0746	0.09	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.0518	0.0518	mg/kg	1 / 12	0.0707 - 0.0749	0.0518	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0576	0.102	mg/kg	6 / 12	0.073 - 0.0746	0.102	170	TCEQ	no	BSL
	DU 176	Inorganics 7439-92-1	Lead	5.69	63.1	mg/kg	12 / 12	--	63.1	50	TCEQ	YES
PAHs												
56-55-3		Benzo(a)anthracene	0.0544	0.0544	mg/kg	1 / 12	0.0702 - 0.0746	0.0544	4.1	TCEQ	no	BSL
50-32-8		Benzo(a)pyrene	0.0495	0.0649	mg/kg	2 / 12	0.0702 - 0.0743	0.0649	0.41	TCEQ	no	BSL
205-99-2		Benzo(b)fluoranthene	0.0643	0.0643	mg/kg	1 / 12	0.0702 - 0.0743	0.0643	4.1	TCEQ	no	BSL
191-24-2		Benzo(g,h,i)perylene	0.0614	0.0614	mg/kg	1 / 12	0.0702 - 0.0743	0.0614	180	TCEQ	no	BSL
218-01-9		Chrysene	0.0599	0.0625	mg/kg	2 / 12	0.0702 - 0.0743	0.0625	410	TCEQ	no	BSL
206-44-0		Fluoranthene	0.0511	0.13	mg/kg	4 / 12	0.0702 - 0.0743	0.13	230	TCEQ	no	BSL

TABLE 2.3
OCCURRENCE, DISTRIBUTION, AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	CAS Number	Chemical	Minimum Concentration	Maximum Concentration	Units	Detection Frequency	Range of Detection Limits	Concentration Used for Screening (1)	Screening Toxicity Value (2,4)		COPC Flag (Y/N)	Rationale for Selection or Deletion (3)
DU 176 Cont.	85-01-8	Phenanthrene	0.0803	0.0803	mg/kg	1 / 12	0.0702 - 0.0746	0.0803	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0628	0.0998	mg/kg	3 / 12	0.0702 - 0.0743	0.0998	170	TCEQ	no	BSL
DU 183	Inorganics											
	7439-92-1	Lead	5.97	31.5	mg/kg	12 / 12	--	31.5	50	TCEQ	no	BSL
DU 190	Inorganics	Lead	8.48	110	mg/kg	12 / 12	--	110	50	TCEQ	YES	ASL
	7439-92-1											
	PAHs											
	120-12-7	Anthracene	0.0679	0.0679	mg/kg	1 / 12	0.0735 - 0.0749	0.0679	1800	TCEQ	no	BSL
	56-55-3	Benzo(a)anthracene	0.31	0.31	mg/kg	1 / 12	0.0735 - 0.0749	0.31	4.1	TCEQ	no	BSL
	50-32-8	Benzo(a)pyrene	0.0544	0.278	mg/kg	2 / 12	0.0735 - 0.0749	0.278	0.41	TCEQ	no	BSL
	205-99-2	Benzo(b)fluoranthene	0.0538	0.264	mg/kg	2 / 12	0.0735 - 0.0749	0.264	4.1	TCEQ	no	BSL
	192-97-2	Benzo(e)pyrene	0.192	0.192	mg/kg	1 / 12	0.0735 - 0.0749	0.192	180	TCEQ	no	BSL
	191-24-2	Benzo(g,h,i)perylene	0.0525	0.18	mg/kg	2 / 12	0.0735 - 0.0749	0.18	180	TCEQ	no	BSL
	205-82-3	Benzo(j)fluoranthene	0.142	0.142	mg/kg	1 / 12	0.0735 - 0.0749	0.142	3.9	TCEQ	no	BSL
	207-08-9	Benzo(k)fluoranthene	0.139	0.139	mg/kg	1 / 12	0.0735 - 0.0749	0.139	42	TCEQ	no	BSL
	218-01-9	Chrysene	0.343	0.343	mg/kg	1 / 12	0.0735 - 0.0749	0.343	410	TCEQ	no	BSL
	206-44-0	Fluoranthene	0.05	0.749	mg/kg	3 / 12	0.0743 - 0.0749	0.749	230	TCEQ	no	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.159	0.159	mg/kg	1 / 12	0.0735 - 0.0749	0.159	4.2	TCEQ	no	BSL
	85-01-8	Phenanthrene	0.347	0.347	mg/kg	1 / 12	0.0735 - 0.0749	0.347	170	TCEQ	no	BSL
	129-00-0	Pyrene	0.0536	0.593	mg/kg	2 / 12	0.0735 - 0.0749	0.593	170	TCEQ	no	BSL

Footnotes:

(1) Maximum detected concentration.

(2) Screening levels are Texas Commission on Environmental Quality (TCEQ) TRRP Tier 1 Residential Protective Concentration Levels (PCLs) for a 30 acre source area multiplied by 0.1.

(3) "ASL" = maximum concentration measured in soil is above screening level, "BSL" = maximum concentration measured in soil is below screening level.

(4) The ^{1st}Soil_{cont} PCL for benzo(j)fluoranthene in the March 2018 TRRP PCL tables is based on the outdated toxicity values for benzo(a)pyrene and a relative potency factor (RPF) of 0.1. USEPA updated benzo(a)pyrene's cancer slope factor and inhalation unit risk in January 2017 to 1 (mg/kg-day)⁻¹ and 0.0006 (µg/m3)⁻¹, respectively. The current toxicity values and a RPF of 0.1 were used to calculate a Tier 1 PCL (30 acre source area) of 39 mg/kg for benzo(j)fluoranthene.

Abbreviations:

mg/kg = milligram per kilogram

TABLE 3.1
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (1)			Maximum Concentration	Exposure Point Concentration			
				Value	Method	Distribution		Value	Units	Statistic (2)	Rationale
DU 002-08	Lead	mg/kg	1.7E+02	4.1E+02	95% Chebyshev(Mean, Sd) UCL	NP	2.7E+02	4.1E+02	mg/kg	95% UCL	UCL for ISM
	Benzo(a)pyrene	mg/kg	9.0E-01	1.6E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.2E+00	1.6E+00	mg/kg	95% UCL	UCL for ISM
DU 003	Benzo(a)pyrene	mg/kg	1.0E+00	1.4E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.1E+00	1.4E+00	mg/kg	95% UCL	UCL for ISM
DU 004	Benzo(a)pyrene	mg/kg	6.9E-01	1.1E+00	95% Chebyshev(Mean, Sd) UCL	NP	8.1E-01	1.1E+00	mg/kg	95% UCL	UCL for ISM
DU 005	Benzo(a)pyrene	mg/kg	9.2E-01	1.2E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.0E+00	1.2E+00	mg/kg	95% UCL	UCL for ISM
DU 006	Benzo(a)pyrene	mg/kg	2.4E+00	3.6E+00	95% Chebyshev(Mean, Sd) UCL	NP	3.0E+00	3.6E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	4.1E-01	6.2E-01	95% Chebyshev(Mean, Sd) UCL	NP	5.1E-01	6.2E-01	mg/kg	95% UCL	UCL for ISM
DU 009	Benzo(a)pyrene	mg/kg	9.5E-01	1.2E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.1E+00	1.2E+00	mg/kg	95% UCL	UCL for ISM
DU 010-01	Benzo(a)pyrene	mg/kg	5.6E-01	7.0E-01	95% Chebyshev(Mean, Sd) UCL	NP	6.2E-01	7.0E-01	mg/kg	95% UCL	UCL for ISM
DU 010-03	Benzo(a)pyrene	mg/kg	2.6E+00	3.8E+00	95% Chebyshev(Mean, Sd) UCL	NP	3.0E+00	3.8E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	4.6E-01	6.6E-01	95% Chebyshev(Mean, Sd) UCL	NP	5.2E-01	6.6E-01	mg/kg	95% UCL	UCL for ISM
DU 010-04	Lead	mg/kg	6.1E+01	6.5E+01	95% Chebyshev(Mean, Sd) UCL	NP	6.3E+01	6.5E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(a)pyrene	mg/kg	4.2E+00	5.0E+00	95% Chebyshev(Mean, Sd) UCL	NP	4.6E+00	5.0E+00	mg/kg	95% UCL	UCL for ISM
	Benzo(b)fluoranthene	mg/kg	3.9E+00	4.7E+00	95% Chebyshev(Mean, Sd) UCL	NP	4.2E+00	4.7E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	7.3E-01	8.7E-01	95% Chebyshev(Mean, Sd) UCL	NP	7.9E-01	8.7E-01	mg/kg	95% UCL	UCL for ISM
DU 010-06	Lead	mg/kg	5.7E+01	7.1E+01	95% Chebyshev(Mean, Sd) UCL	NP	6.3E+01	7.1E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(a)anthracene	mg/kg	3.7E+00	5.0E+00	95% Chebyshev(Mean, Sd) UCL	NP	4.2E+00	5.0E+00	mg/kg	95% UCL	UCL for ISM
	Benzo(a)pyrene	mg/kg	5.3E+00	7.3E+00	95% Chebyshev(Mean, Sd) UCL	NP	6.0E+00	7.3E+00	mg/kg	95% UCL	UCL for ISM
	Benzo(b)fluoranthene	mg/kg	4.9E+00	6.9E+00	95% Chebyshev(Mean, Sd) UCL	NP	5.7E+00	6.9E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	1.1E+00	1.5E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.2E+00	1.5E+00	mg/kg	95% UCL	UCL for ISM
	Indeno(1,2,3-cd)pyrene	mg/kg	3.8E+00	5.4E+00	95% Chebyshev(Mean, Sd) UCL	NP	4.5E+00	5.4E+00	mg/kg	95% UCL	UCL for ISM
DU 017	Benzo(a)pyrene	mg/kg	5.8E-01	6.8E-01	95% Chebyshev(Mean, Sd) UCL	NP	6.3E-01	6.8E-01	mg/kg	95% UCL	UCL for ISM
DU 019-01	Benzo(a)pyrene	mg/kg	5.2E-01	6.0E-01	95% Chebyshev(Mean, Sd) UCL	NP	5.5E-01	6.0E-01	mg/kg	95% UCL	UCL for ISM
DU 019-03	Benzo(a)pyrene	mg/kg	8.8E-01	1.1E+00	95% Chebyshev(Mean, Sd) UCL	NP	9.4E-01	1.1E+00	mg/kg	95% UCL	UCL for ISM
DU 019-04	Benzo(a)pyrene	mg/kg	4.3E-01	--	--	--	4.4E-01	4.4E-01	mg/kg	Maximum	2 ISM Samples
DU 019-05	Benzo(a)pyrene	mg/kg	3.9E-01	--	--	--	4.1E-01	4.1E-01	mg/kg	Maximum	2 ISM Samples
DU 039	Benzo(a)pyrene	mg/kg	2.7E-01	5.8E-01	95% Chebyshev(Mean, Sd) UCL	NP	4.2E-01	5.8E-01	mg/kg	95% UCL	UCL for ISM
DU 040	Benzo(a)pyrene	mg/kg	7.2E-01	1.0E+00	95% Chebyshev(Mean, Sd) UCL	NP	8.6E-01	1.0E+00	mg/kg	95% UCL	UCL for ISM
DU 046	Benzo(a)pyrene	mg/kg	4.2E-01	6.6E-01	95% Chebyshev(Mean, Sd) UCL	NP	5.1E-01	6.6E-01	mg/kg	95% UCL	UCL for ISM
DU 047	Benzo(a)pyrene	mg/kg	7.4E-01	8.8E-01	95% Chebyshev(Mean, Sd) UCL	NP	8.0E-01	8.8E-01	mg/kg	95% UCL	UCL for ISM

TABLE 3.1
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: ISM Soil (0-2 in)

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (1)			Maximum Concentration	Exposure Point Concentration			
				Value	Method	Distribution		Value	Units	Statistic (2)	Rationale
DU 049	Lead	mg/kg	5.0E+01	6.7E+01	95% Chebyshev(Mean, Sd) UCL	NP	5.7E+01	6.7E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(a)anthracene	mg/kg	6.4E+00	1.2E+01	95% Chebyshev(Mean, Sd) UCL	NP	8.4E+00	1.2E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(a)pyrene	mg/kg	8.7E+00	1.5E+01	95% Chebyshev(Mean, Sd) UCL	NP	1.1E+01	1.5E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(b)fluoranthene	mg/kg	8.2E+00	1.5E+01	95% Chebyshev(Mean, Sd) UCL	NP	1.1E+01	1.5E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(j)fluoranthene	mg/kg	4.2E+00	7.4E+00	95% Chebyshev(Mean, Sd) UCL	NP	5.4E+00	7.4E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	1.4E+00	2.5E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.8E+00	2.5E+00	mg/kg	95% UCL	UCL for ISM
	Indeno(1,2,3-cd)pyrene	mg/kg	5.3E+00	9.2E+00	95% Chebyshev(Mean, Sd) UCL	NP	6.7E+00	9.2E+00	mg/kg	95% UCL	UCL for ISM
DU 050	Benzo(a)pyrene	mg/kg	2.9E+00	4.0E+00	95% Chebyshev(Mean, Sd) UCL	NP	3.3E+00	4.0E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	5.3E-01	7.5E-01	95% Chebyshev(Mean, Sd) UCL	NP	6.2E-01	7.5E-01	mg/kg	95% UCL	UCL for ISM
DU 053	Benzo(a)pyrene	mg/kg	1.7E+00	2.3E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.9E+00	2.3E+00	mg/kg	95% UCL	UCL for ISM
DU 054	Benzo(a)anthracene	mg/kg	4.7E+00	1.1E+01	95% Chebyshev(Mean, Sd) UCL	NP	6.5E+00	1.1E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(a)pyrene	mg/kg	6.4E+00	1.5E+01	95% Chebyshev(Mean, Sd) UCL	NP	9.0E+00	1.5E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(b)fluoranthene	mg/kg	5.8E+00	1.3E+01	95% Chebyshev(Mean, Sd) UCL	NP	8.0E+00	1.3E+01	mg/kg	95% UCL	UCL for ISM
	Benzo(j)fluoranthene	mg/kg	2.9E+00	6.5E+00	95% Chebyshev(Mean, Sd) UCL	NP	4.1E+00	6.5E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	1.1E+00	2.6E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.6E+00	2.6E+00	mg/kg	95% UCL	UCL for ISM
	Indeno(1,2,3-cd)pyrene	mg/kg	4.4E+00	1.0E+01	95% Chebyshev(Mean, Sd) UCL	NP	6.1E+00	1.0E+01	mg/kg	95% UCL	UCL for ISM
DU 056	Lead	mg/kg	3.9E+01	1.0E+02	95% Chebyshev(Mean, Sd) UCL	NP	6.8E+01	1.0E+02	mg/kg	95% UCL	UCL for ISM
	Benzo(a)pyrene	mg/kg	4.1E+00	6.1E+00	95% Chebyshev(Mean, Sd) UCL	NP	5.0E+00	6.1E+00	mg/kg	95% UCL	UCL for ISM
	Benzo(b)fluoranthene	mg/kg	4.0E+00	6.1E+00	95% Chebyshev(Mean, Sd) UCL	NP	4.9E+00	6.1E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	7.1E-01	1.1E+00	95% Chebyshev(Mean, Sd) UCL	NP	8.7E-01	1.1E+00	mg/kg	95% UCL	UCL for ISM
DU 064	Benzo(a)pyrene	mg/kg	9.0E-01	1.2E+00	95% Chebyshev(Mean, Sd) UCL	NP	9.7E-01	1.2E+00	mg/kg	95% UCL	UCL for ISM
DU 069	Benzo(a)pyrene	mg/kg	1.1E+00	1.9E+00	95% Chebyshev(Mean, Sd) UCL	NP	1.4E+00	1.9E+00	mg/kg	95% UCL	UCL for ISM
DU 074	Lead	mg/kg	4.8E+01	1.0E+02	95% Chebyshev(Mean, Sd) UCL	NP	6.5E+01	1.0E+02	mg/kg	95% UCL	UCL for ISM
	Benzo(a)pyrene	mg/kg	3.4E+00	4.6E+00	95% Chebyshev(Mean, Sd) UCL	NP	3.9E+00	4.6E+00	mg/kg	95% UCL	UCL for ISM
	Dibenzo(a,h)anthracene	mg/kg	5.8E-01	8.1E-01	95% Chebyshev(Mean, Sd) UCL	NP	6.8E-01	8.1E-01	mg/kg	95% UCL	UCL for ISM
DU 077	Benzo(a)pyrene	mg/kg	4.2E-01	5.7E-01	95% Chebyshev(Mean, Sd) UCL	NP	4.7E-01	5.7E-01	mg/kg	95% UCL	UCL for ISM
DU 134	Benzo(a)pyrene	mg/kg	5.4E-01	6.4E-01	95% Chebyshev(Mean, Sd) UCL	NP	5.6E-01	6.4E-01	mg/kg	95% UCL	UCL for ISM
DU 140	Benzo(a)pyrene	mg/kg	5.5E-01	8.6E-01	95% Chebyshev(Mean, Sd) UCL	NP	6.6E-01	8.6E-01	mg/kg	95% UCL	UCL for ISM
DU 464	Benzo(a)pyrene	mg/kg	3.7E-01	5.9E-01	95% Chebyshev(Mean, Sd) UCL	NP	4.7E-01	5.9E-01	mg/kg	95% UCL	UCL for ISM
DU 465	Benzo(a)pyrene	mg/kg	5.3E-01	--	--	--	5.6E-01	5.6E-01	mg/kg	Maximum	2 ISM Samples

Footnotes:

- (1) Distribution abbreviations: NP = nonparametric
(2) The EPC is the calculated 95% UCL unless otherwise noted

Abbreviations:

95% UCL = 95 percent upper confidence limit on the mean
EPC = exposure point concentration
mg/kg = milligram per kilogram

TABLE 3.2
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current
Medium: Soil
Exposure Medium: Stratification Soil (0-6 in)

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (1)			Maximum Concentration	Exposure Point Concentration			
				Value	Method	Distribution		Value	Units	Statistic (2)	Rationale
DU 003	Benzo(a)pyrene	mg/kg	6.5E-01	1.1E+00	95% Student's-t UCL	N	9.3E-01	9.3E-01	mg/kg	Maximum	Max < 95% UCL
DU 009	Lead	mg/kg	4.6E+01	9.4E+01	95% Student's-t UCL	N	1.4E+02	9.4E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	6.2E+00	1.4E+01	95% Student's-t UCL	N	1.9E+01	1.4E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	7.7E+00	1.7E+01	95% Student's-t UCL	N	2.3E+01	1.7E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	7.4E+00	1.7E+01	95% Student's-t UCL	N	2.2E+01	1.7E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	4.0E+00	9.0E+00	95% Student's-t UCL	N	1.2E+01	9.0E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	1.6E+00	3.0E+00	95% KM (t) UCL	NP	4.0E+00	3.0E+00	mg/kg	95% UCL	95% UCL calculated
	Indeno(1,2,3-cd)pyrene	mg/kg	4.6E+00	1.1E+01	95% Student's-t UCL	N	1.4E+01	1.1E+01	mg/kg	95% UCL	95% UCL calculated
DU 044	Benzo(a)pyrene	mg/kg	1.7E+00	3.4E+00	95% Student's-t UCL	N	4.2E+00	3.4E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	4.3E-01	--	--	--	6.5E-01	6.5E-01	mg/kg	Maximum	insufficient sample size
DU 066	Lead	mg/kg	3.8E+01	7.5E+01	95% Adjusted Gamma UCL	G	6.7E+01	6.7E+01	mg/kg	Maximum	Max < 95% UCL
	Benzo(a)pyrene	mg/kg	9.7E-01	1.5E+00	95% Student's-t UCL	N	1.8E+00	1.5E+00	mg/kg	95% UCL	95% UCL calculated
DU 132	Lead	mg/kg	1.3E+02	--	--	--	4.1E+02	4.1E+02	mg/kg	Maximum	insufficient sample size
	Benzo(a)pyrene	mg/kg	8.3E-01	1.2E+00	95% Student's-t UCL	N	1.3E+00	1.2E+00	mg/kg	95% UCL	95% UCL calculated
DU 146	Lead	mg/kg	4.0E+01	6.0E+01	95% Student's-t UCL	N	6.5E+01	6.0E+01	mg/kg	95% UCL	95% UCL calculated
DU 151	Lead	mg/kg	3.8E+01	5.1E+01	95% Student's-t UCL	N	5.3E+01	5.1E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	2.7E-01	--	--	--	4.7E-01	4.7E-01	mg/kg	Maximum	insufficient sample size

Footnotes:

- (1) Distribution abbreviations: G = gamma; Ln = lognormal; N = normal; NP = nonparametric
(2) The EPC is the lower of the calculated 95% UCL and the maximum detected concentration

Abbreviations:

95% UCL = 95 percent upper confidence limit on the mean

EPC = exposure point concentration

mg/kg = milligram per kilogram

TABLE 3.3
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (1)			Maximum Concentration	Exposure Point Concentration			
				Value	Method	Distribution		Value	Units	Statistic (2)	Rationale
DU 002-08	Benzo(a)pyrene	mg/kg	7.7E-01	7.5E-01	95% KM (t) UCL	NP	1.9E+00	7.5E-01	mg/kg	95% UCL	95% UCL calculated
DU 009	Lead	mg/kg	1.1E+01	2.7E+01	95% Chebyshev (Mean, Sd) UCL	NP	5.1E+01	2.7E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	9.7E-01	6.6E-01	95% KM (t) UCL	NP	1.6E+00	6.6E-01	mg/kg	95% UCL	95% UCL calculated
DU 010	Benzo(a)pyrene	mg/kg	7.6E-01	4.7E-01	95% KM (t) UCL	NP	1.6E+00	4.7E-01	mg/kg	95% UCL	95% UCL calculated
DU 010-03	Lead	mg/kg	2.1E+01	3.9E+01	95% H-UCL	LN	5.6E+01	3.9E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	4.9E+00	4.1E+00	95% KM (t) UCL	NP	1.2E+01	4.1E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	4.7E+00	5.1E+00	95% KM (t) UCL	NP	1.5E+01	5.1E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	5.8E+00	4.9E+00	95% KM (t) UCL	NP	1.5E+01	4.9E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	3.1E+00	2.7E+00	95% KM (t) UCL	NP	7.9E+00	2.7E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	1.3E+00	9.7E-01	95% KM (t) UCL	NP	2.8E+00	9.7E-01	mg/kg	95% UCL	95% UCL calculated
	Indeno(1,2,3-cd)pyrene	mg/kg	4.0E+00	3.4E+00	95% KM (t) UCL	NP	1.0E+01	3.4E+00	mg/kg	95% UCL	95% UCL calculated
DU 010-04	Lead	mg/kg	4.1E+01	9.7E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.9E+02	9.7E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	1.3E+01	3.4E+01	95% Adjusted Gamma UCL	G	8.5E+01	3.4E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	1.6E+01	4.2E+01	95% Adjusted Gamma UCL	G	1.1E+02	4.2E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	1.5E+01	3.9E+01	95% Adjusted Gamma UCL	G	9.8E+01	3.9E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	8.1E+00	2.1E+01	95% Adjusted Gamma UCL	G	5.2E+01	2.1E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(k)fluoranthene	mg/kg	7.9E+00	2.0E+01	95% Adjusted Gamma UCL	G	5.1E+01	2.0E+01	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	3.3E+00	6.7E+00	Gamma Adjusted KM-UCL	NP	1.7E+01	6.7E+00	mg/kg	95% UCL	95% UCL calculated
DU 010-06	Indeno(1,2,3-cd)pyrene	mg/kg	9.8E+00	2.5E+01	95% Adjusted Gamma UCL	G	6.2E+01	2.5E+01	mg/kg	95% UCL	95% UCL calculated
	Lead	mg/kg	4.6E+01	1.3E+02	95% Chebyshev (Mean, Sd) UCL	NP	2.5E+02	1.3E+02	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	1.3E+01	1.4E+01	95% KM (t) UCL	NP	2.8E+01	1.4E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	1.6E+01	1.7E+01	95% KM (t) UCL	NP	3.6E+01	1.7E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	1.5E+01	1.6E+01	95% KM (t) UCL	NP	3.4E+01	1.6E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	7.1E+00	8.4E+00	95% KM (t) UCL	NP	1.8E+01	8.4E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	2.8E+00	2.8E+00	95% KM (t) UCL	NP	6.0E+00	2.8E+00	mg/kg	95% UCL	95% UCL calculated
DU 016	Indeno(1,2,3-cd)pyrene	mg/kg	9.4E+00	1.0E+01	95% KM (t) UCL	NP	2.2E+01	1.0E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	1.6E+00	1.5E+00	95% KM (t) UCL	NP	4.2E+00	1.5E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	1.7E+00	1.5E+00	95% KM (t) UCL	NP	4.2E+00	1.5E+00	mg/kg	95% UCL	95% UCL calculated
DU 019-01	Dibenzo(a,h)anthracene	mg/kg	2.4E-01	2.1E-01	95% KM (t) UCL	NP	5.2E-01	2.1E-01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	2.9E-01	5.1E-01	95% KM (Chebyshev) UCL	NP	8.5E-01	5.1E-01	mg/kg	95% UCL	95% UCL calculated
DU 038	Lead	mg/kg	1.6E+01	4.2E+01	95% Chebyshev (Mean, Sd) UCL	NP	9.8E+01	4.2E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	8.9E-01	2.0E+00	Gamma Adjusted KM-UCL	NP	4.5E+00	2.0E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	1.0E+00	2.1E+00	Gamma Adjusted KM-UCL	NP	4.5E+00	2.1E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	8.7E-01	1.8E+00	Gamma Adjusted KM-UCL	NP	4.2E+00	1.8E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	2.8E-01	2.4E-01	95% KM (t) UCL	NP	7.4E-01	2.4E-01	mg/kg	95% UCL	95% UCL calculated

TABLE 3.3
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (1)			Maximum Concentration	Exposure Point Concentration			
				Value	Method	Distribution		Value	Units	Statistic (2)	Rationale
DU 040	Lead	mg/kg	1.4E+01	3.5E+01	95% Chebyshev (Mean, Sd) UCL	NP	5.3E+01	3.5E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	2.7E+00	5.3E+00	Gamma Adjusted KM-UCL	NP	1.0E+01	5.3E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	2.9E+00	5.5E+00	Gamma Adjusted KM-UCL	NP	1.1E+01	5.5E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	2.7E+00	5.1E+00	Gamma Adjusted KM-UCL	NP	9.8E+00	5.1E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	1.7E+00	2.8E+00	Gamma Adjusted KM-UCL	NP	5.5E+00	2.8E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	6.3E-01	5.4E-01	95% KM (t) UCL	NP	1.8E+00	5.4E-01	mg/kg	95% UCL	95% UCL calculated
	Indeno(1,2,3-cd)pyrene	mg/kg	1.7E+00	3.2E+00	Gamma Adjusted KM-UCL	NP	6.2E+00	3.2E+00	mg/kg	95% UCL	95% UCL calculated
DU 044	Lead	mg/kg	2.9E+01	8.7E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.9E+02	8.7E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	4.3E+00	8.0E+00	Gamma Adjusted KM-UCL	NP	1.5E+01	8.0E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	4.8E+00	9.8E+00	Gamma Adjusted KM-UCL	NP	1.8E+01	9.8E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	4.9E+00	9.1E+00	Gamma Adjusted KM-UCL	NP	1.7E+01	9.1E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	3.3E+00	3.2E+00	95% KM (t) UCL	NP	9.3E+00	3.2E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	1.2E+00	1.1E+00	95% KM (t) UCL	NP	3.0E+00	1.1E+00	mg/kg	95% UCL	95% UCL calculated
	Indeno(1,2,3-cd)pyrene	mg/kg	3.2E+00	5.9E+00	Gamma Adjusted KM-UCL	NP	1.1E+01	5.9E+00	mg/kg	95% UCL	95% UCL calculated
DU 046	Benzo(a)pyrene	mg/kg	7.8E-01	8.4E-01	Gamma Adjusted KM-UCL	NP	2.2E+00	8.4E-01	mg/kg	95% UCL	95% UCL calculated
DU 050	Lead	mg/kg	2.7E+01	8.0E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.4E+02	8.0E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	1.6E+01	1.1E+01	95% KM (t) UCL	NP	3.6E+01	1.1E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	2.0E+01	1.4E+01	95% KM (t) UCL	NP	4.5E+01	1.4E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	1.9E+01	1.3E+01	95% KM (t) UCL	NP	4.2E+01	1.3E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	9.5E+00	6.5E+00	95% KM (t) UCL	NP	2.1E+01	6.5E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	3.3E+00	2.3E+00	95% KM (t) UCL	NP	7.6E+00	2.3E+00	mg/kg	95% UCL	95% UCL calculated
	Indeno(1,2,3-cd)pyrene	mg/kg	1.2E+01	8.5E+00	95% KM (t) UCL	NP	2.9E+01	8.5E+00	mg/kg	95% UCL	95% UCL calculated
DU 053	Benzo(a)pyrene	mg/kg	1.4E+00	1.6E+00	95% KM (t) UCL	NP	3.8E+00	1.6E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	2.7E-01	3.0E-01	95% KM (t) UCL	NP	6.5E-01	3.0E-01	mg/kg	95% UCL	95% UCL calculated
DU 056	Lead	mg/kg	2.2E+01	4.8E+01	95% Chebyshev (Mean, Sd) UCL	NP	8.8E+01	4.8E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	8.4E-01	7.8E-01	95% KM (t) UCL	NP	2.8E+00	7.8E-01	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	2.2E-01	1.5E-01	95% KM (t) UCL	NP	4.3E-01	1.5E-01	mg/kg	95% UCL	95% UCL calculated
DU 058	Lead	mg/kg	3.0E+01	6.9E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.2E+02	6.9E+01	mg/kg	95% UCL	95% UCL calculated
DU 063	Lead	mg/kg	1.8E+01	4.0E+01	95% H-UCL	LN	7.6E+01	4.0E+01	mg/kg	95% UCL	95% UCL calculated

TABLE 3.3
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (1)			Maximum Concentration	Exposure Point Concentration			
				Value	Method	Distribution		Value	Units	Statistic (2)	Rationale
DU 064	Lead	mg/kg	4.2E+01	1.1E+02	95% Chebyshev (Mean, Sd) UCL	NP	1.7E+02	1.1E+02	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	3.5E+00	3.1E+00	95% KM (t) UCL	NP	9.1E+00	3.1E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	4.1E+00	7.0E+00	Gamma Adjusted KM-UCL	NP	1.3E+01	7.0E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	4.2E+00	6.2E+00	Gamma Adjusted KM-UCL	NP	1.1E+01	6.2E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	2.3E+00	3.3E+00	Gamma Adjusted KM-UCL	NP	6.0E+00	3.3E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	9.0E-01	1.2E+00	Gamma Adjusted KM-UCL	NP	2.3E+00	1.2E+00	mg/kg	95% UCL	95% UCL calculated
	Indeno(1,2,3-cd)pyrene	mg/kg	3.0E+00	4.5E+00	Gamma Adjusted KM-UCL	NP	8.3E+00	4.5E+00	mg/kg	95% UCL	95% UCL calculated
DU 066	Lead	mg/kg	2.1E+01	5.9E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.4E+02	5.9E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	4.9E-01	2.9E-01	95% KM (t) UCL	NP	6.8E-01	2.9E-01	mg/kg	95% UCL	95% UCL calculated
DU 074	Lead	mg/kg	7.8E+01	1.3E+02	95% Adjusted Gamma UCL	G	2.1E+02	1.3E+02	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	3.0E+01	3.9E+01	95% KM (t) UCL	NP	9.2E+01	3.9E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	3.5E+01	4.7E+01	95% KM (t) UCL	NP	1.1E+02	4.7E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	3.2E+01	4.3E+01	95% KM (t) UCL	NP	1.0E+02	4.3E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(j)fluoranthene	mg/kg	1.8E+01	2.3E+01	95% KM (t) UCL	NP	5.4E+01	2.3E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(k)fluoranthene	mg/kg	1.7E+01	2.2E+01	95% KM (t) UCL	NP	5.3E+01	2.2E+01	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	5.4E+00	7.2E+00	95% KM (t) UCL	NP	1.7E+01	7.2E+00	mg/kg	95% UCL	95% UCL calculated
DU 077	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E+01	2.6E+01	95% KM (t) UCL	NP	5.9E+01	2.6E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	1.1E+00	7.7E-01	95% KM (t) UCL	NP	2.5E+00	7.7E-01	mg/kg	95% UCL	95% UCL calculated
DU 080	Lead	mg/kg	1.9E+01	4.3E+01	95% H-UCL	LN	6.1E+01	4.3E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	7.6E-01	1.8E+00	Gamma Adjusted KM-UCL	G	2.9E+00	1.8E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	2.1E-01	--	--	--	4.9E-01	4.9E-01	mg/kg	Maximum	# Samples < 8 or # Detects < 4
DU 082	Benzo(a)pyrene	mg/kg	8.7E-01	1.9E+00	Gamma Adjusted KM-UCL	G	3.3E+00	1.9E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	2.0E-01	2.1E-01	95% KM (t) UCL	NP	5.0E-01	2.1E-01	mg/kg	95% UCL	95% UCL calculated
DU 083	Lead	mg/kg	1.7E+01	4.2E+01	95% Chebyshev (Mean, Sd) UCL	NP	6.8E+01	4.2E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	1.1E+00	1.1E+00	95% KM (t) UCL	NP	2.1E+00	1.1E+00	mg/kg	95% UCL	95% UCL calculated
DU 084	Lead	mg/kg	3.1E+01	4.5E+01	95% Student's-t UCL	N	9.2E+01	4.5E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	4.1E-01	4.6E-01	95% KM (t) UCL	NP	8.8E-01	4.6E-01	mg/kg	95% UCL	95% UCL calculated
DU 087	Benzo(a)pyrene	mg/kg	5.2E-01	1.1E+00	Gamma Adjusted KM-UCL	G	1.9E+00	1.1E+00	mg/kg	95% UCL	95% UCL calculated
DU 095	Lead	mg/kg	3.5E+01	9.1E+01	95% Adjusted Gamma UCL	G	2.1E+02	9.1E+01	mg/kg	95% UCL	95% UCL calculated
DU 103	Lead	mg/kg	2.6E+01	6.7E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.2E+02	6.7E+01	mg/kg	95% UCL	95% UCL calculated
DU 105	Lead	mg/kg	2.2E+01	5.3E+01	95% Chebyshev (Mean, Sd) UCL	NP	7.4E+01	5.3E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	7.8E-01	--	--	--	1.1E+00	1.1E+00	mg/kg	Maximum	# Samples < 8 or # Detects < 4
DU 115	Lead	mg/kg	2.4E+01	8.7E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.5E+02	8.7E+01	mg/kg	95% UCL	95% UCL calculated

TABLE 3.3
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future
Medium: Soil
Exposure Medium: Soil (0-12 ft)

Exposure Point	Chemical of Potential Concern	Units	Arithmetic Mean	95% UCL (1)			Maximum Concentration	Exposure Point Concentration			
				Value	Method	Distribution		Value	Units	Statistic (2)	Rationale
DU 132	Lead	mg/kg	3.9E+01	9.1E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.2E+02	9.1E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	1.0E+00	2.8E+00	95% KM Bootstrap t UCL	NP	4.2E+00	2.8E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	9.8E-01	2.7E+00	95% KM Bootstrap t UCL	NP	4.2E+00	2.7E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	2.3E-01	2.0E-01	95% KM (t) UCL	NP	4.9E-01	2.0E-01	mg/kg	95% UCL	95% UCL calculated
DU 134	Lead	mg/kg	8.7E+01	3.1E+02	95% Chebyshev(Mean, Sd) UCL	NP	5.9E+02	3.1E+02	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	1.4E+00	1.2E+00	95% KM (t) UCL	NP	3.4E+00	1.2E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	2.7E-01	2.2E-01	95% KM (t) UCL	NP	5.5E-01	2.2E-01	mg/kg	95% UCL	95% UCL calculated
DU 140	Lead	mg/kg	2.5E+01	5.9E+01	95% Chebyshev (Mean, Sd) UCL	NP	7.7E+01	5.9E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)anthracene	mg/kg	1.6E+00	2.3E+00	95% KM (t) UCL	NP	6.0E+00	2.3E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	2.0E+00	2.8E+00	95% KM (t) UCL	NP	6.3E+00	2.8E+00	mg/kg	95% UCL	95% UCL calculated
	Benzo(b)fluoranthene	mg/kg	1.9E+00	2.7E+00	95% KM (t) UCL	NP	6.1E+00	2.7E+00	mg/kg	95% UCL	95% UCL calculated
	Dibenzo(a,h)anthracene	mg/kg	5.0E-01	4.6E-01	95% KM (t) UCL	NP	1.0E+00	4.6E-01	mg/kg	95% UCL	95% UCL calculated
DU 143	Lead	mg/kg	3.0E+01	7.5E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.2E+02	7.5E+01	mg/kg	95% UCL	95% UCL calculated
	Benzo(a)pyrene	mg/kg	2.8E-01	2.2E-01	95% KM (t) UCL	NP	5.1E-01	2.2E-01	mg/kg	95% UCL	95% UCL calculated
DU 176	Lead	mg/kg	1.8E+01	4.2E+01	95% Chebyshev (Mean, Sd) UCL	NP	6.3E+01	4.2E+01	mg/kg	95% UCL	95% UCL calculated
DU 190	Lead	mg/kg	3.3E+01	7.7E+01	95% Chebyshev (Mean, Sd) UCL	NP	1.1E+02	7.7E+01	mg/kg	95% UCL	95% UCL calculated

Footnotes:

- (1) Distribution abbreviations: G = gamma; LN = lognormal; N = normal; NP = nonparametric
(2) The EPC is the lower of the calculated 95% UCL and the maximum detected concentration

Abbreviations:

95% UCL = 95 percent upper confidence limit on the mean

EPC = exposure point concentration

mg/kg = milligram per kilogram

TABLE 4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current and Future
Medium: Soil
Exposure Medium: Soil - All Depths

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Dermal	Resident (Adult)	Adult	All Decision Units	CS	Concentration in Soil	Chemical Specific	mg/kg	-- EPA, 2014 EPA, 2014 EPA, 2014 EPA, 2014 EPA, 2014 EPA, 1989 EPA, 1989	Dermal Absorbed Dose (DAD) (mg/kg-day) = CS x CF x AF x ABSd x EF x ED x EVs x SAs x 1/BW x 1/AT
				CF	Conversion Factor	0.000001	kg/mg		
				AF	Adherence Factor (AF)	0.07	mg/cm2		
				ABSd	Dermal Absorption Fraction	Chemical Specific	unitless		
				EF	Exposure Frequency (EF)	350	days/year		
				ED	Exposure Duration (ED)	20	years		
				EVs	Event Frequency (EVs)	1	events/day	Professional judgment	
				SAs	Exposed Surface Area (SAs)	6032	cm2/day	EPA, 2014	
				BW	Body Weight (BW)	80	kg	EPA, 2014	
				ATc	Averaging Time (Cancer) (ATc)	25550	days	EPA, 1989	
				ATnc	Averaging Time (Non-Cancer) (ATnc)	7300	days	EPA, 1989	
Ingestion	Resident (Adult)	Adult	All Decision Units	CS	Concentration in Soil	Chemical Specific	mg/kg	-- EPA, 2014 EPA, 2014 EPA, 2014 EPA, 2014 EPA, 2014 EPA, 1989 EPA, 1989	Chronic Daily Intake (CDI) (mg/kg-day) = CS x IRsoil x FI x EF x ED x CF x RBAF x ABSo x 1/BW x 1/AT
				CF	Conversion Factor	0.000001	kg/mg		
				IRsoil	Soil Ingestion Rate (IR)	100	mg/day		
				RBAF	Relative Bioavailability Factor	Chemical Specific	unitless		
				ABSo	Oral Absorption Fraction	Chemical Specific	unitless		
				EF	Exposure Frequency (EF)	350	days/year		
				ED	Exposure Duration (ED)	20	years		
				FI	Fraction Ingested (FI)	1	unitless	Professional judgment	
				BW	Body Weight (BW)	80	kg	EPA, 2014	
				ATc	Averaging Time (Cancer) (ATc)	25550	days	EPA, 1989	
				ATnc	Averaging Time (Non-Cancer) (ATnc)	7300	days	EPA, 1989	
Inhalation	Resident (Adult)	Adult	All Decision Units	CS	Concentration in Soil	Chemical Specific	mg/kg	-- EPA, 2014 EPA, 2014 EPA, 2014 EPA, 2002 EPA, 2009 EPA, 2009	Exposure Concentration (mg/m3) = CS x ETaa x EF x ED x [1/PEF + 1/VF] x 1/AT x 1/CFair; for nonvolatiles 1/VF = 0
				CFair	Conversion Factor, Air (CFair)	1000	µg/mg		
				ETaa	Exposure Time, Ambient Air (ETaa)	24	hours/day		
				EF	Exposure Frequency (EF)	350	days/year		
				ED	Exposure Duration (ED)	20	years		
				PEF	Particulate Emission Factor	1.36E+09	m3/kg		
				VF	Volatilization Factor	Chemical Specific	m3/kg		
				Atc_air	Averaging Time (Cancer) (Atc_air)	613200	hours		
				Atnc_air	Averaging Time (Non-Cancer) (Atnc_air)	175200	hours		

TABLE 4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current and Future
Medium: Soil
Exposure Medium: Soil - All Depths

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name (1)
Dermal	Resident (Child)	Child	All Decision Units	CS	Concentration in Soil	Chemical Specific	mg/kg	-- EPA, 2014 EPA, 2014 EPA, 2014 Professional judgment EPA, 2014 EPA, 2014 EPA, 1989 EPA, 1989	Dermal Absorbed Dose (DAD) (mg/kg-day) = CS x CF x AF x ABSd x EF x ED x EVs x SAs x 1/BW x 1/AT
				CF	Conversion Factor	0.000001	kg/mg		
				AF	Adherence Factor (AF)	0.2	mg/cm2		
				ABSd	Dermal Absorption Fraction	Chemical Specific	unitless		
				EF	Exposure Frequency (EF)	350	days/year		
				ED	Exposure Duration (ED)	6	years		
				EVs	Event Frequency (EVs)	1	events/day		
				SAs	Exposed Surface Area (SAs)	2373	cm2/day		
				BW	Body Weight (BW)	15	kg		
				ATc	Averaging Time (Cancer) (ATc)	25550	days		
				ATnc	Averaging Time (Non-Cancer) (ATnc)	2190	days		
Ingestion	Resident (Child)	Child	All Decision Units	CS	Concentration in Soil	Chemical Specific	mg/kg	-- EPA, 2014 EPA, 2014 EPA, 2014 Professional judgment EPA, 2014 EPA, 1989 EPA, 1989	Chronic Daily Intake (CDI) (mg/kg-day) = CS x IRsoil x FI x EF x ED x CF x RBAF x ABSo x 1/BW x 1/AT
				CF	Conversion Factor	0.000001	kg/mg		
				IRsoil	Soil Ingestion Rate (IR)	200	mg/day		
				RBAF	Relative Bioavailability Factor	Chemical Specific	unitless		
				ABSo	Oral Absorption Fraction	Chemical Specific	unitless		
				EF	Exposure Frequency (EF)	350	days/year		
				ED	Exposure Duration (ED)	6	years		
				FI	Fraction Ingested (FI)	1	unitless		
				BW	Body Weight (BW)	15	kg		
				ATc	Averaging Time (Cancer) (ATc)	25550	days		
				ATnc	Averaging Time (Non-Cancer) (ATnc)	2190	days		
Inhalation	Resident (Child)	Child	All Decision Units	CS	Concentration in Soil	Chemical Specific	mg/kg	-- EPA, 2014 EPA, 2014 EPA, 2014 EPA, 2002 EPA, 2009 EPA, 2009	Exposure Concentration (mg/m3) = CS x ETaa x EF x ED x [1/PEF + 1/VF] x 1/AT x 1/CFair; for nonvolatiles 1/VF = 0
				CFair	Conversion Factor, Air (CFair)	1000	µg/mg		
				ETaa	Exposure Time, Ambient Air (ETaa)	8	hours/day		
				EF	Exposure Frequency (EF)	350	days/year		
				ED	Exposure Duration (ED)	6	years		
				PEF	Particulate Emission Factor	1.36E+09	m3/kg		
				VF	Volatilization Factor	Chemical Specific	m3/kg		
				Atc_air	Averaging Time (Cancer) (Atc_air)	613200	hours		
				Atnc_air	Averaging Time (Non-Cancer) (Atnc_air)	52560	hours		

Footnotes:

(1) Refer to RI for discussion.

TABLE 4-2.
SOIL VOLATILIZATION FACTORS
Laredo AFB, Laredo, TX

Constituent	Constituent-Specific Physical Parameters								Calculated Parameters						Soil Volatilization Factor Passive (VF) (m³/kg)
	Henry's Law Constant at Ref. Temp. (H _a) (atm-m³/mol)	Henry's Law Constant at Ref. Temp. (unitless)	Diffusivity in Air (D _{air}) (cm²/sec)	Diffusivity in Water (D _{wat}) (cm²/sec)	Partition Coefficient (K _{oc}) (mL/g)	Enthalpy of Vaporization at Boiling Point (ΔH _v) (cal/mol)	Normal Boiling Point (T _B) (K)	Critical Temperature (T _C) (K)	Exponent (n) (unitless)	Enthalpy of Vaporization at at Soil Temp. (ΔH _{v,TS}) (cal/mol)	Henry's Law Constant at at Soil Temp. (H) (atm-m³/mol)	Henry's Law Constant at Soil Temp. (H' _{TS}) (unitless)	Apparent Diffusivity (D _A) (cm²/sec)	Volatile [a] (Yes/No)	
Acenaphthene	1.84E-04	7.52E-03	5.06E-02	8.33E-06	5.03E+03	1.22E+04	5.52E+02	8.03E+02	0.30	1.24E+04	1.49E-04	6.15E-03	4.07E-07	Yes	2.17E+05
Acenaphthylene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Anthracene	5.56E-05	2.27E-03	3.90E-02	7.85E-06	1.64E+04	1.31E+04	6.13E+02	8.73E+02	0.30	1.36E+04	4.40E-05	1.82E-03	2.90E-08	Yes	8.15E+05
Benzo(a)anthracene	1.20E-05	4.91E-04	2.61E-02	6.75E-06	1.77E+05	1.60E+04	7.11E+02	1.07E+03	0.30	1.64E+04	9.06E-06	3.74E-04	4.06E-10	Yes	6.88E+06
Benzo(a)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Benzo(b)fluoranthene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Benzo(e)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Benzo(g,h,i)perylene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Benzo(j)fluoranthene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Benzo(k)fluoranthene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Chrysene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Dibenz(a,h)anthracene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Fluoranthene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Fluorene	9.62E-05	3.93E-03	4.40E-02	7.89E-06	9.16E+03	1.27E+04	5.68E+02	8.70E+02	0.30	1.29E+04	7.71E-05	3.19E-03	1.01E-07	Yes	4.36E+05
Indeno(1,2,3-cd)pyrene	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Phenanthrene	4.22E-05	1.73E-03	3.45E-02	6.69E-06	1.67E+04	1.33E+04	6.13E+02	9.20E+02	0.30	1.40E+04	3.32E-05	1.37E-03	1.90E-08	Yes	1.00E+06
Pyrene	1.19E-05	4.87E-04	2.78E-02	7.25E-06	5.43E+04	1.44E+04	6.77E+02	9.36E+02	0.30	1.52E+04	9.16E-06	3.79E-04	1.42E-09	Yes	3.68E+06
Lead	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—

Passive Soil Scenarios: Commercial, Visitor, and Residential Scenarios (USEPA 2002)

$$VF = Q/C_{vol} \times CF1 \times [3.14 \times D_A \times T]^{1/2} / (2 \times \rho_b \times D_A)$$

where

$$Q/C_{vol} = A \times \exp[(\ln A_c - B)^2/C]$$

$$D_A = \{[(\theta_{as}^{10/3} \times D_{air} \times Ho) + (\theta_{ws}^{10/3} \times D_{wat})] / \theta_T^2\} / (\rho_b \times K_{oc} \times F_{oc}) + \theta_{ws} + \theta_{as} \times Ho$$

Henry's Law Constant Correction (USEPA 2001)

$$H'_{TS} = \text{exponential} [-\Delta H_{v,TS} / R_C (1 / T_{gw} - 1 / T_R)] H_R / RT_{gw}$$

where

$$\Delta H_{v,TS} = \Delta H_{v,b} [(1 - T_{gw} / T_C) / (1 - T_B / T_C)]^n$$

$$T_{gw} = T + CF1$$

$$n = \text{if } T_B / T_C < 0.57 = 0.3$$

$$n = \text{if } T_B / T_C > 0.71 = 0.41$$

$$n = \text{if } T_B / T_C > 0.57 \text{ or } < 0.71 = (0.74 \times T_B / T_C) - 0.116$$

Passive Soil Parameters

Passive Soil Parameters	Acronym	Value	Units	Source	Definitions
Air-filled soil porosity ($\theta_{as} = \theta_T - \theta_{ws}$)	θ_{as}	0.251	cm³/cm³	USEPA 2002	— not applicable
Apparent diffusivity	D _A	calculated	cm²/sec		°C degree Celsius
Areal extent of site soil contamination	A _c	0.25	acres	site-specific (approximate size of each DU/residential lot)	atm-m³/mol atmosphere cubic meter per mole
Conversion factor 1	CF1	0.0001	cm²/m²		cal/mol calorie per mol
Diffusivity in air	D _{air}	cs		USEPA 2017	cm³/cm³ cubic centimeter per cubic centimeter
Diffusivity in water	D _{wat}	cs		USEPA 2017	cm²/m² square centimeter per square meter
Fraction organic carbon	F _{oc}	0.006	unitless	USEPA 2002	cm²/sec square centimeter per second
Henry's Law Constant at the soil temperature	H _o	calculated	unitless		g/cm³ gram per cubic meter
Overall duration of exposure, passive scenario	T	8.2E+08	seconds	site-specific (based on 26 years of potential exposure)	g/m²/sec gram per meter squared per second
Partition coefficient	K _{oc}	cs	cal/mol	USEPA 2017	K Kelvin
Soil dry bulk density for loamy soil	ρ_b	1.59	g/cm³	USEPA 2004	kg/m³ kilogram per cubic meter
Total soil porosity for loamy soil	θ_T	0.399	cm³/cm³	USEPA 2004	m³/kg cubic meter per kilogram

TABLE 4-2.
SOIL VOLATILIZATION FACTORS
Laredo AFB, Laredo, TX

Volatilization flux per unit concentration	Q/C _{vol}	86.9	(g/m ² /sec)/(kg/m ³)	USEPA 2002	mL/g	milliliter per gram
Constant A	A	13.6482	unitless	Constant for Houston, Texas (USEPA 2002)	USEPA	United States Environmental Protection Agency
Constant B	B	18.1754	unitless	Constant for Houston, Texas (USEPA 2002)		
Constant C	C	206.7273	unitless	Constant for Houston, Texas (USEPA 2002)		
Volatilization factor	VF	calculated	m ³ /kg			
Water-filled porosity for loamy soil	θ _{ws}	0.148	cm ³ /cm ³	USEPA 2004		

Henry's Law Constant Correction Parameters	Acronym	Value	Units	Source
Average system absolute temperature	T _s	295.15	K	regional-specific (USEPA 2004)
Conversion factor 1	CF1	273.15	K	
Critical temperature	T _c	cs	K	NIST 2017
Enthalpy of vaporization at normal boiling point	ΔH _{v,b}	cs	cal/mol	USEPA 2017
Enthalpy of vaporization at water temperature	ΔH _{v,TS}	calculated	cal/mol	
Exponent	n	calculated	unitless	
Ideal gas constant	R	0.000082	atm-m ³ /mole-K	USEPA 1988
Gas constant	R _c	1.9872	cal/mol-K	
Henry's Law Constant	H _R	cs	atm-m ³ /mol	USEPA 2017
Henry's Law Constant reference temperature	T _R	298.15	K	
Henry's Law Constant at water temperature	H' _{TS}	calculated	unitless	
Normal boiling point	T _B	cs	K	USEPA 2017
Temperature of soil	T _s	22	°C	regional-specific (USEPA 2004)

Notes

- [a] The volatilization factor was only calculated for constituents that USEPA (2018) considers to be volatile.
[b] Chemical-specific values were obtained from ORNL (2017) and Chemo (2018).

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TABLE 5.1
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
Laredo AFB, Laredo, TX

Chemical of Potential Concern	Chronic/ Subchronic	Oral RfD		Dermal Absorption Fraction (1)	Absorbed RfD for Dermal		Primary Target Organ(s)	Composite Uncertainty Factor	RfD: Target Organ(s)		Relative Bioavailability Factor (2)
		Value	Units		Value	Units			Source(s)	Date(s) (MM/DD/YYYY)	
PAHs											
Benzo(a)anthracene	chronic	NA	NA	0.007	NA	NA	developmental	medium/300	IRIS	04/17/18	0.23
Benzo(a)pyrene		0.0003	mg/kg-day	0.007	2.1E-06	mg/kg-day					0.20
Benzo(b)fluoranthene		NA	NA	0.011	NA	NA					0.20
Benzo(j)fluoranthene		NA	NA	0.011	NA	NA					0.20
Benzo(k)fluoranthene		NA	NA	0.0035	NA	NA					0.20
Dibenzo(a,h)anthracene		NA	NA	0.0057	NA	NA					0.20
Indeno(1,2,3-cd)pyrene		NA	NA	0.001	NA	NA					0.20
Inorganics											
Lead	chronic	NA	NA	1	NA	NA					1

Notes:

(1) Site-specific dermal absorption fraction (ABSd) values for PAHs are from the *Final PAH Bioavailability Study Report for the Former Foster Air Force Base Skeet Range* (2017).

(2) Site-specific relative bioavailability factors (RBAF) for PAHs are from the *Final PAH Bioavailability Study Report for the Former Foster Air Force Base Skeet Range* (2017).

Abbreviations:

mg = milligram

kg = kilogram

NA = not applicable

RBAF = relative bioavailability factor

RfD = oral reference dose

IRIS = Integrated Risk Information System

TABLE 5.2
NON-CANCER TOXICITY DATA -- INHALATION
Laredo AFB, Laredo, TX

Chemical of Potential Concern	Chronic/ Subchronic	Inhalation RfC		Primary Target Organ(s)	Composite Uncertainty Factor	RfC: Target Organ(s)	
		Value	Units			Source(s)	Date(s) (MM/DD/YYYY)
PAHs	chronic	NA	mg/m3	developmental	low/medium/3000	IRIS	04/17/18
Benzo(a)anthracene		0.000002	mg/m3				
Benzo(a)pyrene		NA	mg/m3				
Benzo(b)fluoranthene		NA	mg/m3				
Benzo(j)fluoranthene		NA	mg/m3				
Benzo(k)fluoranthene		NA	mg/m3				
Dibenzo(a,h)anthracene		NA	mg/m3				
Indeno(1,2,3-cd)pyrene		NA	mg/m3				
Inorganics	chronic	NA	mg/m3	developmental	low/medium/3000	IRIS	04/17/18
Lead		NA	mg/m3				

Abbreviations:

mg/m³ = milligrams per cubic meter of air

NA = not applicable

IRIS = Integrated Risk Information System

RfC = inhalation reference concentration

TABLE 6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
Laredo AFB, Laredo, TX

Chemical of Potential Concern	Mutagen	Oral Cancer Slope Factor		Dermal Absorption Fraction	Absorbed Cancer Slope Factor for Dermal		Weight of Evidence/ Cancer Guideline Description	Oral CSF		Relative Bioavailability
		Value	Units		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)	Factor (3)
PAHs										
Benzo(a)anthracene	M	1.0E-01	1/mg/kg-day	0.007	7.0E-04	1/mg/kg-day	B2	IRIS	04/17/18	0.23
Benzo(a)pyrene	M	1.0E+00	1/mg/kg-day	0.007	7.0E-03	1/mg/kg-day	H	IRIS	04/17/18	0.20
Benzo(b)fluoranthene	M	1.0E-01	1/mg/kg-day	0.011	1.1E-03	1/mg/kg-day	B2	IRIS	04/17/18	0.20
Benzo(j)fluoranthene		1.0E-01	1/mg/kg-day	0.011	1.1E-03	1/mg/kg-day	B2	Cal EPA (4)	04/17/18	0.20
Benzo(k)fluoranthene	M	1.0E-02	1/mg/kg-day	0.0035	3.5E-05	1/mg/kg-day		IRIS	04/17/18	0.20
Dibenzo(a,h)anthracene	M	1.0E+00	1/mg/kg-day	0.0057	5.7E-03	1/mg/kg-day	B2	IRIS	04/17/18	0.20
Indeno(1,2,3-cd)pyrene	M	1.0E-01	1/mg/kg-day	0.001	1.0E-04	1/mg/kg-day	B2	IRIS	04/17/18	0.20
Inorganics										
Lead		NA	NA	1	NA	NA				1

Notes:

(1) Site-specific dermal absorption fraction (ABSd) values for PAHs are from the *Final PAH Bioavailability Study Report for the Former Foster Air Force Base Skeet Range* (2017).

(2) "H" = Carcinogenic to humans, "B2" = Probable human carcinogen - based on sufficient evidence of carcinogenicity in animals.

(3) Site-specific relative bioavailability factors (RBAF) for PAHs are from the *Final PAH Bioavailability Study Report for the Former Foster Air Force Base Skeet Range* (2017).

(4) Applied the relative potency factor (RPF) of 0.1 to the benzo(a)pyrene slope factor for benzo(j)fluoranthene.

Abbreviations:

mg = milligram

kg = kilogram

NA = not applicable

RBAF = relative bioavailability factor

RFD = oral reference dose

TABLE 6.2
CANCER TOXICITY DATA – INHALATION
Laredo AFB, Laredo, TX

Chemical of Potential Concern	Mutagen	Inhalation Unit Risk		Weight of Evidence/ Cancer Guideline Description (1)	Inhalation Unit Risk	
		Value	Units		Source(s)	Date(s) (MM/DD/YYYY)
PAHs						
Benzo(a)anthracene	M	6.0E-05	1/(ug/m ³)	B2	IRIS	04/17/18
Benzo(a)pyrene	M	6.0E-04	1/(ug/m ³)	H	IRIS	04/17/18
Benzo(b)fluoranthene	M	6.0E-05	1/(ug/m ³)	B2	IRIS	04/17/18
Benzo(j)fluoranthene		6.0E-05	1/(ug/m ³)	B2	Cal EPA [2]	04/17/18
Benzo(k)fluoranthene	M	6.0E-06	1/(ug/m ³)	B2	IRIS	04/17/18
Dibenzo(a,h)anthracene	M	6.0E-04	1/(ug/m ³)	B2	IRIS	04/17/18
Indeno(1,2,3-cd)pyrene	M	6.0E-05	1/(ug/m ³)	B2	IRIS	04/17/18
Inorganics						
Lead		NA	NA			

Notes:

(1) "H" = Carcinogenic to humans, "B2" = Probable human carcinogen - based on sufficient evidence of carcinogenicity in animals.

(2) Applied the relative potency factor (RPF) of 0.1 to the benzo(a)pyrene inhalation unit risk for benzo(j)fluoranthene.

Abbreviations:

Cal EPA = California Environmental Protection Agency Office of Environmental Health Hazard Assessment

ug/m³ = micrograms per cubic meter of air

NA = not applicable

IRIS = Integrated Risk Information System

TABLE 7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RfD/RfC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
ISM Soil (0-2 in)	DU 002-08	Resident (Adult)	Dermal	Benzo(a)pyrene	1.6E+00	mg/kg	2.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.6E-08	5.8E-08	mg/kg-day	3.0E-04	mg/kg-day	1.9E-04
		Resident (Adult)	Dermal	Lead	4.1E+02	mg/kg	6.0E-04	mg/kg-day	NA	NA	NA	2.1E-03	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.6E+00	mg/kg	1.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.7E-07	3.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
		Resident (Adult)	Ingestion	Lead	4.1E+02	mg/kg	1.4E-04	mg/kg-day	NA	NA	NA	4.9E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.6E+00	mg/kg	5.1E-07	ug/m3	6.0E-04	1/(ug/m3)	3.0E-10	1.1E-09	mg/m3	2.0E-06	mg/m3	5.7E-04
	DU 003	Resident (Adult)	Inhalation	Lead	4.1E+02	mg/kg	8.3E-05	ug/m3	NA	NA	NA	2.9E-07	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	1.4E+00	mg/kg	2.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.1E-08	4.8E-08	mg/kg-day	3.0E-04	mg/kg-day	1.6E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-07	3.2E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.4E+00	mg/kg	4.2E-07	ug/m3	6.0E-04	1/(ug/m3)	2.5E-10	9.6E-10	mg/m3	2.0E-06	mg/m3	4.8E-04
		Resident (Adult)	Inhalation	Lead	1.1E+00	mg/kg	1.8E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.8E-08	4.0E-08	mg/kg-day	3.0E-04	mg/kg-day	1.3E-04
	DU 004	Resident (Adult)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	1.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-07	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	3.5E-07	ug/m3	6.0E-04	1/(ug/m3)	2.1E-10	7.9E-10	mg/m3	2.0E-06	mg/m3	4.0E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	3.5E-07	ug/m3	6.0E-04	1/(ug/m3)	2.1E-10	7.9E-10	mg/m3	2.0E-06	mg/m3	4.0E-04
	DU 005	Resident (Adult)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	1.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-08	4.3E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	1.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-07	2.9E-07	mg/kg-day	3.0E-04	mg/kg-day	9.7E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	3.8E-07	ug/m3	6.0E-04	1/(ug/m3)	2.3E-10	8.5E-10	mg/m3	2.0E-06	mg/m3	4.3E-04
	DU 006	Resident (Adult)	Dermal	Benzo(a)pyrene	3.6E+00	mg/kg	5.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.7E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.3E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	6.2E-01	mg/kg	7.9E-09	mg/kg-day	1.0E+00	1/mg/kg-day	7.9E-09	1.8E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	3.6E+00	mg/kg	3.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.8E-07	8.7E-07	mg/kg-day	3.0E-04	mg/kg-day	2.9E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	6.2E-01	mg/kg	6.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.6E-08	1.5E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	3.6E+00	mg/kg	1.1E-06	ug/m3	6.0E-04	1/(ug/m3)	6.8E-10	2.6E-09	mg/m3	2.0E-06	mg/m3	1.3E-03
	DU 009	Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	6.2E-01	mg/kg	1.9E-07	ug/m3	6.0E-04	1/(ug/m3)	1.2E-10	4.4E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	1.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-08	4.3E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	1.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-07	2.9E-07	mg/kg-day	3.0E-04	mg/kg-day	9.7E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	3.8E-07	ug/m3	6.0E-04	1/(ug/m3)	2.3E-10	8.5E-10	mg/m3	2.0E-06	mg/m3	4.3E-04
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	6.2E-01	mg/kg	1.9E-07	ug/m3	6.0E-04	1/(ug/m3)	1.2E-10	4.4E-10	mg/m3	NA	mg/m3	NA
	DU 010-01	Resident (Adult)	Dermal	Benzo(a)pyrene	7.0E-01	mg/kg	1.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-08	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	7.0E-01	mg/kg	7.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	7.4E-08	1.7E-07	mg/kg-day	3.0E-04	mg/kg-day	5.6E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	7.0E-01	mg/kg	2.2E-07	ug/m3	6.0E-04	1/(ug/m3)	1.3E-10	4.9E-10	mg/m3	2.0E-06	mg/m3	2.5E-04
	DU 010-03	Resident (Adult)	Dermal	Benzo(a)pyrene	3.8E+00	mg/kg	6.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	8.4E-09	mg/kg-day	1.0E+00	1/mg/kg-day	8.4E-09	1.9E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	3.8E+00	mg/kg	4.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.1E-07	9.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	7.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	7.0E-08	1.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	3.8E+00	mg/kg	1.2E-06	ug/m3	6.0E-04	1/(ug/m3)	7.2E-10	2.7E-09	mg/m3	2.0E-06	mg/m3	1.3E-03
	DU 010-04	Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	2.1E-07	ug/m3	6.0E-04	1/(ug/m3)	1.2E-10	4.6E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	5.0E+00	mg/kg	7.8E-08	mg/kg-day	1.0E+00	1/mg/kg-day	7.8E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	5.9E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	4.7E+00	mg/kg	1.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-08	2.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	8.7E-01	mg/kg	1.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-08	2.5E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	6.5E+01	mg/kg	9.5E-05	mg/kg-day	NA	NA	NA	3.3E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	5.0E+00	mg/kg	5.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.3E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.0E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	4.7E+00	mg/kg	4.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.9E-08	1.1E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	8.7E-01	mg/kg	9.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.3E-08	2.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	6.5E+01	mg/kg	2.2E-05	mg/kg-day	NA	NA	NA	7.8E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	5.0E+00	mg/kg	1.6E-06	ug/m3	6.0E-04	1/(ug/m3)	9.3E-10	3.5E-09	mg/m3	2.0E-06	mg/m3	1.8E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	4.7E+00	mg/kg	1.5E-06	ug/m3	6.0E-05	1/(ug/m3)	8.7E-11	3.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	8.7E-01	mg/kg	2.7E-07	ug/m3	6.0E-04	1/(ug/m3)	1.6E-10	6.2E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	6.5E+01	mg/kg	1.3E-05	ug/m3	NA	NA	NA	4.6E-08	mg/m3	NA	mg/m3	NA

TABLE 7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
 Receptor Population: Resident
 Receptor Age: Adult
 Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
ISM Soil (0-2 in)	DU 010-06	Resident (Adult)	Dermal	Benzo(a)anthracene	5.0E+00	mg/kg	7.9E-08	mg/kg-day	1.0E-01	1/mg/kg-day	7.9E-09	1.8E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	7.3E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.6E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	6.9E+00	mg/kg	1.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-08	3.9E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	1.5E+00	mg/kg	1.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-08	4.3E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	5.4E+00	mg/kg	1.2E-08	mg/kg-day	1.0E-01	1/mg/kg-day	1.2E-09	2.7E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	7.1E+01	mg/kg	1.0E-04	mg/kg-day	NA	NA	NA	3.6E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	5.0E+00	mg/kg	6.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.1E-08	1.4E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	7.3E+00	mg/kg	7.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.8E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	5.9E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	6.9E+00	mg/kg	7.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	7.3E-08	1.7E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	1.5E+00	mg/kg	1.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-07	3.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	5.4E+00	mg/kg	5.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.7E-08	1.3E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	7.1E+01	mg/kg	2.4E-05	mg/kg-day	NA	NA	NA	8.5E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	5.0E+00	mg/kg	3.1E-04	ug/m3	6.0E-05	1/(ug/m3)	1.9E-08	7.0E-07	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	7.3E+00	mg/kg	2.3E-06	ug/m3	6.0E-04	1/(ug/m3)	1.4E-09	5.2E-09	mg/m3	2.0E-06	mg/m3	2.6E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	6.9E+00	mg/kg	2.2E-06	ug/m3	6.0E-05	1/(ug/m3)	1.3E-10	4.9E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	1.5E+00	mg/kg	4.6E-07	ug/m3	6.0E-04	1/(ug/m3)	2.8E-10	1.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	5.4E+00	mg/kg	1.7E-06	ug/m3	6.0E-05	1/(ug/m3)	1.0E-10	3.8E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	7.1E+01	mg/kg	1.4E-05	ug/m3	NA	NA	NA	5.0E-08	mg/m3	NA	mg/m3	NA
	DU 017	Resident (Adult)	Dermal	Benzo(a)pyrene	6.8E-01	mg/kg	1.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-08	2.4E-08	mg/kg-day	3.0E-04	mg/kg-day	8.0E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	6.8E-01	mg/kg	7.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	7.2E-08	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.4E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	6.8E-01	mg/kg	2.1E-07	ug/m3	6.0E-04	1/(ug/m3)	1.3E-10	4.8E-10	mg/m3	2.0E-06	mg/m3	2.4E-04
	DU 019-01	Resident (Adult)	Dermal	Benzo(a)pyrene	6.0E-01	mg/kg	9.4E-09	mg/kg-day	1.0E+00	1/mg/kg-day	9.4E-09	2.1E-08	mg/kg-day	3.0E-04	mg/kg-day	7.1E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	6.0E-01	mg/kg	6.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.4E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.8E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	6.0E-01	mg/kg	1.9E-07	ug/m3	6.0E-04	1/(ug/m3)	1.1E-10	4.2E-10	mg/m3	2.0E-06	mg/m3	2.1E-04
	DU 019-03	Resident (Adult)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	1.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.7E-08	3.7E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.4E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	3.3E-07	ug/m3	6.0E-04	1/(ug/m3)	2.0E-10	7.4E-10	mg/m3	2.0E-06	mg/m3	3.7E-04
	DU 019-04	Resident (Adult)	Dermal	Benzo(a)pyrene	4.4E-01	mg/kg	6.9E-09	mg/kg-day	1.0E+00	1/mg/kg-day	6.9E-09	1.6E-08	mg/kg-day	3.0E-04	mg/kg-day	5.2E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.4E-01	mg/kg	4.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.7E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.4E-01	mg/kg	1.4E-07	ug/m3	6.0E-04	1/(ug/m3)	8.3E-11	3.1E-10	mg/m3	2.0E-06	mg/m3	1.6E-04
	DU 019-05	Resident (Adult)	Dermal	Benzo(a)pyrene	4.1E-01	mg/kg	6.5E-09	mg/kg-day	1.0E+00	1/mg/kg-day	6.5E-09	1.5E-08	mg/kg-day	3.0E-04	mg/kg-day	4.9E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.1E-01	mg/kg	4.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.4E-08	9.9E-08	mg/kg-day	3.0E-04	mg/kg-day	3.3E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.1E-01	mg/kg	1.3E-07	ug/m3	6.0E-04	1/(ug/m3)	7.7E-11	2.9E-10	mg/m3	2.0E-06	mg/m3	1.5E-04
	DU 039	Resident (Adult)	Dermal	Benzo(a)pyrene	5.8E-01	mg/kg	9.1E-09	mg/kg-day	1.0E+00	1/mg/kg-day	9.1E-09	2.1E-08	mg/kg-day	3.0E-04	mg/kg-day	6.9E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	5.8E-01	mg/kg	6.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.2E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.7E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	5.8E-01	mg/kg	1.8E-07	ug/m3	6.0E-04	1/(ug/m3)	1.1E-10	4.1E-10	mg/m3	2.0E-06	mg/m3	2.1E-04
	DU 040	Resident (Adult)	Dermal	Benzo(a)pyrene	1.0E+00	mg/kg	1.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-08	3.7E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.0E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.4E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.0E+00	mg/kg	3.3E-07	ug/m3	6.0E-04	1/(ug/m3)	2.0E-10	7.4E-10	mg/m3	2.0E-06	mg/m3	3.7E-04
	DU 046	Resident (Adult)	Dermal	Benzo(a)pyrene	6.6E-01	mg/kg	1.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-08	2.3E-08	mg/kg-day	3.0E-04	mg/kg-day	7.8E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	6.6E-01	mg/kg	7.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	7.0E-08	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.3E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	6.6E-01	mg/kg	2.1E-07	ug/m3	6.0E-04	1/(ug/m3)	1.2E-10	4.6E-10	mg/m3	2.0E-06	mg/m3	2.3E-04
	DU 047	Resident (Adult)	Dermal	Benzo(a)pyrene	8.8E-01	mg/kg	1.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-08	3.1E-08	mg/kg-day	3.0E-04	mg/kg-day	1.0E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	8.8E-01	mg/kg	9.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.3E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	8.8E-01	mg/kg	2.7E-07	ug/m3	6.0E-04	1/(ug/m3)	1.6E-10	6.2E-10	mg/m3	2.0E-06	mg/m3	3.1E-04

TABLE 7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
ISM Soil (0-2 in)	DU 049	Resident (Adult)	Dermal	Benzo(a)anthracene	1.2E+01	mg/kg	1.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.8E-08	4.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	1.5E+01	mg/kg	2.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.4E-07	5.5E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	1.5E+01	mg/kg	3.6E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.6E-08	8.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	7.4E+00	mg/kg	1.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.2E-08	4.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.5E+00	mg/kg	3.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.2E-08	7.2E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	9.2E+00	mg/kg	2.1E-08	mg/kg-day	1.0E-01	1/mg/kg-day	2.1E-09	4.7E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	6.7E+01	mg/kg	9.7E-05	mg/kg-day	NA	NA	NA	3.4E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	1.2E+01	mg/kg	1.4E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.4E-07	3.2E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.5E+01	mg/kg	1.6E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-06	3.7E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	1.5E+01	mg/kg	1.5E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.5E-07	3.5E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	7.4E+00	mg/kg	5.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.1E-08	1.8E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.5E+00	mg/kg	2.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-07	6.0E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	9.2E+00	mg/kg	9.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	9.8E-08	2.2E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	6.7E+01	mg/kg	2.3E-05	mg/kg-day	NA	NA	NA	8.1E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	1.2E+01	mg/kg	7.2E-04	ug/m3	6.0E-05	1/(ug/m3)	4.3E-08	1.6E-06	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.5E+01	mg/kg	4.8E-06	ug/m3	6.0E-04	1/(ug/m3)	2.9E-09	1.1E-08	mg/m3	2.0E-06	mg/m3	5.4E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	1.5E+01	mg/kg	4.5E-06	ug/m3	6.0E-05	1/(ug/m3)	2.7E-10	1.0E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	7.4E+00	mg/kg	1.5E-06	ug/m3	6.0E-05	1/(ug/m3)	9.0E-11	5.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.5E+00	mg/kg	7.8E-07	ug/m3	6.0E-04	1/(ug/m3)	4.7E-10	1.8E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	9.2E+00	mg/kg	2.9E-06	ug/m3	6.0E-05	1/(ug/m3)	1.7E-10	6.5E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	6.7E+01	mg/kg	1.4E-05	ug/m3	NA	NA	NA	4.8E-08	mg/m3	NA	mg/m3	NA
	DU 050	Resident (Adult)	Dermal	Benzo(a)pyrene	4.0E+00	mg/kg	6.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.2E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.7E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	7.5E-01	mg/kg	9.6E-09	mg/kg-day	1.0E+00	1/mg/kg-day	9.6E-09	2.2E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.0E+00	mg/kg	4.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.2E-07	9.5E-07	mg/kg-day	3.0E-04	mg/kg-day	3.2E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	7.5E-01	mg/kg	8.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.0E-08	1.8E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.0E+00	mg/kg	1.2E-06	ug/m3	6.0E-04	1/(ug/m3)	7.4E-10	2.8E-09	mg/m3	2.0E-06	mg/m3	1.4E-03
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	7.5E-01	mg/kg	2.3E-07	ug/m3	6.0E-04	1/(ug/m3)	1.4E-10	5.3E-10	mg/m3	NA	mg/m3	NA
	DU 053	Resident (Adult)	Dermal	Benzo(a)pyrene	2.3E+00	mg/kg	3.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.7E-08	8.3E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	2.3E+00	mg/kg	2.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-07	5.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
		Resident (Adult)	Inhalation	Benzo(a)pyrene	2.3E+00	mg/kg	7.3E-07	ug/m3	6.0E-04	1/(ug/m3)	4.4E-10	1.6E-09	mg/m3	2.0E-06	mg/m3	8.2E-04
	DU 054	Resident (Adult)	Dermal	Benzo(a)anthracene	1.1E+01	mg/kg	1.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-08	3.7E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	1.5E+01	mg/kg	2.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.3E-07	5.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.7E-03
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	1.3E+01	mg/kg	3.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.2E-08	7.3E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.0E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.0E-08	3.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.6E+00	mg/kg	3.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.3E-08	7.5E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	2.3E-08	mg/kg-day	1.0E-01	1/mg/kg-day	2.3E-09	5.1E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	1.1E+01	mg/kg	1.3E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.3E-07	2.9E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.5E+01	mg/kg	1.5E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-06	3.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	1.3E+01	mg/kg	1.4E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.4E-07	3.1E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	6.5E+00	mg/kg	4.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.5E-08	1.6E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.6E+00	mg/kg	2.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.8E-07	6.2E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	1.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-07	2.4E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	1.1E+01	mg/kg	6.6E-04	ug/m3	6.0E-05	1/(ug/m3)	3.9E-08	1.5E-06	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.5E+01	mg/kg	4.5E-06	ug/m3	6.0E-04	1/(ug/m3)	2.7E-09	1.0E-08	mg/m3	2.0E-06	mg/m3	5.1E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	1.3E+01	mg/kg	4.1E-06	ug/m3	6.0E-05	1/(ug/m3)	2.4E-10	9.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.3E-06	ug/m3	6.0E-05	1/(ug/m3)	7.9E-11	4.6E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.6E+00	mg/kg	8.1E-07	ug/m3	6.0E-04	1/(ug/m3)	4.9E-10	1.8E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	3.2E-06	ug/m3	6.0E-05	1/(ug/m3)	1.9E-10	7.2E-09	mg/m3	NA	mg/m3	NA

TABLE 7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
ISM Soil (0-2 in)	DU 056	Resident (Adult)	Dermal	Benzo(a)pyrene	6.1E+00	mg/kg	9.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.6E-08	2.2E-07	mg/kg-day	3.0E-04	mg/kg-day	7.2E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	6.1E+00	mg/kg	1.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.5E-08	3.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	1.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-08	3.1E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	1.0E+02	mg/kg	1.5E-04	mg/kg-day	NA	NA	NA	5.2E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	6.1E+00	mg/kg	6.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.5E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	6.1E+00	mg/kg	6.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.5E-08	1.5E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	2.5E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	1.0E+02	mg/kg	3.5E-05	mg/kg-day	NA	NA	NA	1.2E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	6.1E+00	mg/kg	1.9E-06	ug/m3	6.0E-04	1/(ug/m3)	1.1E-09	4.3E-09	mg/m3	2.0E-06	mg/m3	2.1E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	6.1E+00	mg/kg	1.9E-06	ug/m3	6.0E-05	1/(ug/m3)	1.1E-10	4.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	3.3E-07	ug/m3	6.0E-04	1/(ug/m3)	2.0E-10	7.5E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	1.0E+02	mg/kg	2.1E-05	ug/m3	NA	NA	NA	7.3E-08	mg/m3	NA	mg/m3	NA
	DU 064	Resident (Adult)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	1.8E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.8E-08	4.1E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	1.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-07	2.8E-07	mg/kg-day	3.0E-04	mg/kg-day	9.2E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	3.6E-07	ug/m3	6.0E-04	1/(ug/m3)	2.2E-10	8.1E-10	mg/m3	2.0E-06	mg/m3	4.1E-04
	DU 069	Resident (Adult)	Dermal	Benzo(a)pyrene	1.9E+00	mg/kg	3.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-08	6.8E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.9E+00	mg/kg	2.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.0E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.9E+00	mg/kg	6.0E-07	ug/m3	6.0E-04	1/(ug/m3)	3.6E-10	1.4E-09	mg/m3	2.0E-06	mg/m3	6.8E-04
	DU 074	Resident (Adult)	Dermal	Benzo(a)pyrene	4.6E+00	mg/kg	7.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	7.2E-08	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.4E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	8.1E-01	mg/kg	1.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-08	2.3E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	1.0E+02	mg/kg	1.5E-04	mg/kg-day	NA	NA	NA	5.2E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.6E+00	mg/kg	4.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.9E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.7E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	8.1E-01	mg/kg	8.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.6E-08	1.9E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	1.0E+02	mg/kg	3.5E-05	mg/kg-day	NA	NA	NA	1.2E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.6E+00	mg/kg	1.4E-06	ug/m3	6.0E-04	1/(ug/m3)	8.6E-10	3.2E-09	mg/m3	2.0E-06	mg/m3	1.6E-03
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	8.1E-01	mg/kg	2.5E-07	ug/m3	6.0E-04	1/(ug/m3)	1.5E-10	5.7E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	1.0E+02	mg/kg	2.1E-05	ug/m3	NA	NA	NA	7.3E-08	mg/m3	NA	mg/m3	NA
	DU 077	Resident (Adult)	Dermal	Benzo(a)pyrene	5.7E-01	mg/kg	8.9E-09	mg/kg-day	1.0E+00	1/mg/kg-day	8.9E-09	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.7E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	5.7E-01	mg/kg	6.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.1E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.6E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	5.7E-01	mg/kg	1.8E-07	ug/m3	6.0E-04	1/(ug/m3)	1.1E-10	4.0E-10	mg/m3	2.0E-06	mg/m3	2.0E-04
	DU 134	Resident (Adult)	Dermal	Benzo(a)pyrene	6.4E-01	mg/kg	1.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-08	2.2E-08	mg/kg-day	3.0E-04	mg/kg-day	7.5E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	6.4E-01	mg/kg	6.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.7E-08	1.5E-07	mg/kg-day	3.0E-04	mg/kg-day	5.1E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	6.4E-01	mg/kg	2.0E-07	ug/m3	6.0E-04	1/(ug/m3)	1.2E-10	4.5E-10	mg/m3	2.0E-06	mg/m3	2.2E-04
	DU 140	Resident (Adult)	Dermal	Benzo(a)pyrene	8.6E-01	mg/kg	1.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-08	3.1E-08	mg/kg-day	3.0E-04	mg/kg-day	1.0E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	8.6E-01	mg/kg	9.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.1E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	8.6E-01	mg/kg	2.7E-07	ug/m3	6.0E-04	1/(ug/m3)	1.6E-10	6.1E-10	mg/m3	2.0E-06	mg/m3	3.0E-04
	DU 464	Resident (Adult)	Dermal	Benzo(a)pyrene	5.9E-01	mg/kg	9.2E-09	mg/kg-day	1.0E+00	1/mg/kg-day	9.2E-09	2.1E-08	mg/kg-day	3.0E-04	mg/kg-day	6.9E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	5.9E-01	mg/kg	6.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.2E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.7E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	5.9E-01	mg/kg	1.8E-07	ug/m3	6.0E-04	1/(ug/m3)	1.1E-10	4.1E-10	mg/m3	2.0E-06	mg/m3	2.1E-04
	DU 465	Resident (Adult)	Dermal	Benzo(a)pyrene	5.6E-01	mg/kg	8.8E-09	mg/kg-day	1.0E+00	1/mg/kg-day	8.8E-09	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.6E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	5.6E-01	mg/kg	6.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	5.6E-01	mg/kg	1.8E-07	ug/m3	6.0E-04	1/(ug/m3)	1.1E-10	4.0E-10	mg/m3	2.0E-06	mg/m3	2.0E-04

Notes:

mg/kg = milligrams per kilogram.

mg/kg-day = milligrams per kilogram per day.

mg/m³ = milligrams per cubic meter.

ug/m³ = micrograms per cubic meter.

NA = not available or not applicable

TABLE 7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RfD/RfC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
ISM Soil (0-2 in)	DU 002-08	Resident (Child)	Dermal	Benzo(a)pyrene	1.6E+00	mg/kg	8.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.7E-08	3.5E-07	mg/kg-day	3.0E-04	mg/kg-day	1.2E-03
		Resident (Child)	Dermal	Lead	4.1E+02	mg/kg	1.1E-03	mg/kg-day	NA	NA	NA	1.3E-02	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.6E+00	mg/kg	1.0E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-06	4.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
		Resident (Child)	Ingestion	Lead	4.1E+02	mg/kg	4.5E-04	mg/kg-day	NA	NA	NA	5.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.6E+00	mg/kg	9.6E-08	ug/m3	6.0E-04	1/(ug/m3)	5.8E-11	3.8E-10	mg/m3	2.0E-06	mg/m3	1.9E-04
	DU 003	Resident (Child)	Inhalation	Lead	4.1E+02	mg/kg	8.3E-06	ug/m3	NA	NA	NA	9.7E-08	mg/m3	NA	mg/m3	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	1.4E+00	mg/kg	7.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	7.2E-08	2.9E-07	mg/kg-day	3.0E-04	mg/kg-day	9.6E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.4E+00	mg/kg	8.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	8.7E-07	3.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.4E+00	mg/kg	8.0E-08	ug/m3	6.0E-04	1/(ug/m3)	4.8E-11	3.2E-10	mg/m3	2.0E-06	mg/m3	1.6E-04
		Resident (Child)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	6.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.0E-08	2.4E-07	mg/kg-day	3.0E-04	mg/kg-day	8.0E-04
	DU 004	Resident (Child)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	7.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.2E-07	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.6E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	6.6E-08	ug/m3	6.0E-04	1/(ug/m3)	4.0E-11	2.6E-10	mg/m3	2.0E-06	mg/m3	1.3E-04
		Resident (Child)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	6.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.5E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.6E-04
	DU 005	Resident (Child)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	7.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.8E-07	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	7.2E-08	ug/m3	6.0E-04	1/(ug/m3)	4.3E-11	2.8E-10	mg/m3	2.0E-06	mg/m3	1.4E-04
	DU 006	Resident (Child)	Dermal	Benzo(a)pyrene	3.6E+00	mg/kg	1.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-07	7.7E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	6.2E-01	mg/kg	2.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-08	1.1E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	3.6E+00	mg/kg	2.3E-06	mg/kg-day	1.0E+00	1/mg/kg-day	2.3E-06	9.3E-06	mg/kg-day	3.0E-04	mg/kg-day	3.1E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	6.2E-01	mg/kg	4.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.0E-07	1.6E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	3.6E+00	mg/kg	2.1E-07	ug/m3	6.0E-04	1/(ug/m3)	1.3E-10	8.5E-10	mg/m3	2.0E-06	mg/m3	4.3E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	6.2E-01	mg/kg	3.7E-08	ug/m3	6.0E-04	1/(ug/m3)	2.2E-11	1.5E-10	mg/m3	NA	mg/m3	NA
	DU 009	Resident (Child)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	6.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.5E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.6E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	7.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.8E-07	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	7.1E-08	ug/m3	6.0E-04	1/(ug/m3)	4.3E-11	2.8E-10	mg/m3	2.0E-06	mg/m3	1.4E-04
	DU 010-01	Resident (Child)	Dermal	Benzo(a)pyrene	7.0E-01	mg/kg	3.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.7E-08	1.5E-07	mg/kg-day	3.0E-04	mg/kg-day	5.0E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	7.0E-01	mg/kg	4.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.5E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.0E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	7.0E-01	mg/kg	4.1E-08	ug/m3	6.0E-04	1/(ug/m3)	2.5E-11	1.6E-10	mg/m3	2.0E-06	mg/m3	8.2E-05
	DU 010-03	Resident (Child)	Dermal	Benzo(a)pyrene	3.8E+00	mg/kg	2.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.0E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	2.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.9E-08	1.1E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	3.8E+00	mg/kg	2.5E-06	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-06	9.8E-06	mg/kg-day	3.0E-04	mg/kg-day	3.3E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	4.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.2E-07	1.7E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	3.8E+00	mg/kg	2.3E-07	ug/m3	6.0E-04	1/(ug/m3)	1.4E-10	9.0E-10	mg/m3	2.0E-06	mg/m3	4.5E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	6.6E-01	mg/kg	3.9E-08	ug/m3	6.0E-04	1/(ug/m3)	2.3E-11	1.5E-10	mg/m3	NA	mg/m3	NA
	DU 010-04	Resident (Child)	Dermal	Benzo(a)pyrene	5.0E+00	mg/kg	2.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	4.7E+00	mg/kg	3.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.9E-08	1.6E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	8.7E-01	mg/kg	3.8E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.8E-08	1.5E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	6.5E+01	mg/kg	1.7E-04	mg/kg-day	NA	NA	NA	2.0E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	5.0E+00	mg/kg	3.2E-06	mg/kg-day	1.0E+00	1/mg/kg-day	3.2E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.2E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	4.7E+00	mg/kg	3.0E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.0E-07	1.2E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	8.7E-01	mg/kg	5.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.6E-07	2.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	6.5E+01	mg/kg	7.2E-05	mg/kg-day	NA	NA	NA	8.4E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	5.0E+00	mg/kg	2.9E-07	ug/m3	6.0E-04	1/(ug/m3)	1.8E-10	1.2E-09	mg/m3	2.0E-06	mg/m3	5.9E-04
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	4.7E+00	mg/kg	2.8E-07	ug/m3	6.0E-05	1/(ug/m3)	1.7E-11	1.1E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	8.7E-01	mg/kg	5.2E-08	ug/m3	6.0E-04	1/(ug/m3)	3.1E-11	2.1E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	6.5E+01	mg/kg	1.3E-06	ug/m3	NA	NA	NA	1.5E-08	mg/m3	NA	mg/m3	NA

TABLE 7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
 Receptor Population: Resident
 Receptor Age: Child
 Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
ISM Soil (0-2 in)	DU 010-06	Resident (Child)	Dermal	Benzo(a)anthracene	5.0E+00	mg/kg	2.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.7E-08	1.1E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	7.3E+00	mg/kg	3.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.9E-07	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	5.2E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	6.9E+00	mg/kg	5.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.8E-08	2.3E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	1.5E+00	mg/kg	6.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.4E-08	2.6E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	5.4E+00	mg/kg	4.1E-08	mg/kg-day	1.0E-01	1/mg/kg-day	4.1E-09	1.6E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	7.1E+01	mg/kg	1.8E-04	mg/kg-day	NA	NA	NA	2.2E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	5.0E+00	mg/kg	3.7E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.7E-07	1.5E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	7.3E+00	mg/kg	4.7E-06	mg/kg-day	1.0E+00	1/mg/kg-day	4.7E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	6.9E+00	mg/kg	4.5E-06	mg/kg-day	1.0E-01	1/mg/kg-day	4.5E-07	1.8E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	1.5E+00	mg/kg	9.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	9.5E-07	3.8E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	5.4E+00	mg/kg	3.5E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.5E-07	1.4E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	7.1E+01	mg/kg	7.8E-05	mg/kg-day	NA	NA	NA	9.1E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	5.0E+00	mg/kg	5.9E-05	ug/m3	6.0E-05	1/(ug/m3)	3.5E-09	2.3E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	7.3E+00	mg/kg	4.3E-07	ug/m3	6.0E-04	1/(ug/m3)	2.6E-10	1.7E-09	mg/m3	2.0E-06	mg/m3	8.6E-04
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	6.9E+00	mg/kg	4.1E-07	ug/m3	6.0E-05	1/(ug/m3)	2.5E-11	1.6E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	1.5E+00	mg/kg	8.8E-08	ug/m3	6.0E-04	1/(ug/m3)	5.3E-11	3.5E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	5.4E+00	mg/kg	3.2E-07	ug/m3	6.0E-05	1/(ug/m3)	1.9E-11	1.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	7.1E+01	mg/kg	1.4E-06	ug/m3	NA	NA	NA	1.7E-08	mg/m3	NA	mg/m3	NA
	DU 017	Resident (Child)	Dermal	Benzo(a)pyrene	6.8E-01	mg/kg	3.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.6E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.8E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	6.8E-01	mg/kg	4.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.4E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.8E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	6.8E-01	mg/kg	4.0E-08	ug/m3	6.0E-04	1/(ug/m3)	2.4E-11	1.6E-10	mg/m3	2.0E-06	mg/m3	8.0E-05
	DU 019-01	Resident (Child)	Dermal	Benzo(a)pyrene	6.0E-01	mg/kg	3.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.2E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.3E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	6.0E-01	mg/kg	3.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.9E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.1E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	6.0E-01	mg/kg	3.6E-08	ug/m3	6.0E-04	1/(ug/m3)	2.1E-11	1.4E-10	mg/m3	2.0E-06	mg/m3	7.1E-05
	DU 019-03	Resident (Child)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	5.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.6E-08	2.2E-07	mg/kg-day	3.0E-04	mg/kg-day	7.5E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	6.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.8E-07	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	6.2E-08	ug/m3	6.0E-04	1/(ug/m3)	3.7E-11	2.5E-10	mg/m3	2.0E-06	mg/m3	1.2E-04
	DU 019-04	Resident (Child)	Dermal	Benzo(a)pyrene	4.4E-01	mg/kg	2.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.4E-08	9.4E-08	mg/kg-day	3.0E-04	mg/kg-day	3.1E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	4.4E-01	mg/kg	2.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.8E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.8E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.4E-01	mg/kg	2.6E-08	ug/m3	6.0E-04	1/(ug/m3)	1.6E-11	1.0E-10	mg/m3	2.0E-06	mg/m3	5.2E-05
	DU 019-05	Resident (Child)	Dermal	Benzo(a)pyrene	4.1E-01	mg/kg	2.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.2E-08	8.8E-08	mg/kg-day	3.0E-04	mg/kg-day	2.9E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	4.1E-01	mg/kg	2.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.1E-01	mg/kg	2.4E-08	ug/m3	6.0E-04	1/(ug/m3)	1.5E-11	9.7E-11	mg/m3	2.0E-06	mg/m3	4.9E-05
	DU 039	Resident (Child)	Dermal	Benzo(a)pyrene	5.8E-01	mg/kg	3.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.1E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	4.1E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	5.8E-01	mg/kg	3.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.7E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	5.8E-01	mg/kg	3.4E-08	ug/m3	6.0E-04	1/(ug/m3)	2.1E-11	1.4E-10	mg/m3	2.0E-06	mg/m3	6.8E-05
	DU 040	Resident (Child)	Dermal	Benzo(a)pyrene	1.0E+00	mg/kg	5.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.6E-08	2.2E-07	mg/kg-day	3.0E-04	mg/kg-day	7.4E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.0E+00	mg/kg	6.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.7E-07	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	8.9E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.0E+00	mg/kg	6.2E-08	ug/m3	6.0E-04	1/(ug/m3)	3.7E-11	2.5E-10	mg/m3	2.0E-06	mg/m3	1.2E-04
	DU 046	Resident (Child)	Dermal	Benzo(a)pyrene	6.6E-01	mg/kg	3.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.5E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.7E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	6.6E-01	mg/kg	4.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.2E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.6E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	6.6E-01	mg/kg	3.9E-08	ug/m3	6.0E-04	1/(ug/m3)	2.3E-11	1.5E-10	mg/m3	2.0E-06	mg/m3	7.7E-05
	DU 047	Resident (Child)	Dermal	Benzo(a)pyrene	8.8E-01	mg/kg	4.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.7E-08	1.9E-07	mg/kg-day	3.0E-04	mg/kg-day	6.2E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	8.8E-01	mg/kg	5.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.7E-07	2.2E-06	mg/kg-day	3.0E-04	mg/kg-day	7.5E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	8.8E-01	mg/kg	5.2E-08	ug/m3	6.0E-04	1/(ug/m3)	3.1E-11	2.1E-10	mg/m3	2.0E-06	mg/m3	1.0E-04

TABLE 7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
 Receptor Population: Resident
 Receptor Age: Child
 Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
ISM Soil (0-2 in)	DU 049	Resident (Child)	Dermal	Benzo(a)anthracene	1.2E+01	mg/kg	6.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.2E-08	2.5E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	1.5E+01	mg/kg	8.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	8.2E-07	3.3E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
		Resident (Child)	Dermal	Benzo(b)fluoranthene	1.5E+01	mg/kg	1.2E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.2E-07	4.8E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	7.4E+00	mg/kg	2.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.1E-08	2.5E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.5E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	4.3E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	9.2E+00	mg/kg	7.0E-08	mg/kg-day	1.0E-01	1/mg/kg-day	7.0E-09	2.8E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	6.7E+01	mg/kg	1.8E-04	mg/kg-day	NA	NA	NA	2.0E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	1.2E+01	mg/kg	8.6E-06	mg/kg-day	1.0E-01	1/mg/kg-day	8.6E-07	3.4E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.5E+01	mg/kg	9.9E-06	mg/kg-day	1.0E+00	1/mg/kg-day	9.9E-06	3.9E-05	mg/kg-day	3.0E-04	mg/kg-day	1.3E-01
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	1.5E+01	mg/kg	9.3E-06	mg/kg-day	1.0E-01	1/mg/kg-day	9.3E-07	3.7E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	7.4E+00	mg/kg	1.6E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.6E-07	1.9E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.5E+00	mg/kg	1.6E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-06	6.4E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	9.2E+00	mg/kg	5.9E-06	mg/kg-day	1.0E-01	1/mg/kg-day	5.9E-07	2.3E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	6.7E+01	mg/kg	7.4E-05	mg/kg-day	NA	NA	NA	8.6E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	1.2E+01	mg/kg	1.4E-04	ug/m3	6.0E-05	1/(ug/m3)	8.2E-09	5.4E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.5E+01	mg/kg	9.1E-07	ug/m3	6.0E-04	1/(ug/m3)	5.5E-10	3.6E-09	mg/m3	2.0E-06	mg/m3	1.8E-03
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	1.5E+01	mg/kg	8.6E-07	ug/m3	6.0E-05	1/(ug/m3)	5.2E-11	3.4E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	7.4E+00	mg/kg	1.5E-07	ug/m3	6.0E-05	1/(ug/m3)	9.0E-12	1.7E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.5E+00	mg/kg	1.5E-07	ug/m3	6.0E-04	1/(ug/m3)	8.9E-11	5.9E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	9.2E+00	mg/kg	5.4E-07	ug/m3	6.0E-05	1/(ug/m3)	3.3E-11	2.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	6.7E+01	mg/kg	1.4E-06	ug/m3	NA	NA	NA	1.6E-08	mg/m3	NA	mg/m3	NA
	DU 050	Resident (Child)	Dermal	Benzo(a)pyrene	4.0E+00	mg/kg	2.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.1E-07	8.4E-07	mg/kg-day	3.0E-04	mg/kg-day	2.8E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	7.5E-01	mg/kg	3.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.3E-08	1.3E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	4.0E+00	mg/kg	2.5E-06	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.4E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	7.5E-01	mg/kg	4.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.8E-07	1.9E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.0E+00	mg/kg	2.3E-07	ug/m3	6.0E-04	1/(ug/m3)	1.4E-10	9.3E-10	mg/m3	2.0E-06	mg/m3	4.7E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	7.5E-01	mg/kg	4.4E-08	ug/m3	6.0E-04	1/(ug/m3)	2.7E-11	1.8E-10	mg/m3	NA	mg/m3	NA
	DU 053	Resident (Child)	Dermal	Benzo(a)pyrene	2.3E+00	mg/kg	1.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-07	4.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
		Resident (Child)	Ingestion	Benzo(a)pyrene	2.3E+00	mg/kg	1.5E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-06	6.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
		Resident (Child)	Inhalation	Benzo(a)pyrene	2.3E+00	mg/kg	1.4E-07	ug/m3	6.0E-04	1/(ug/m3)	8.3E-11	5.5E-10	mg/m3	2.0E-06	mg/m3	2.7E-04
	DU 054	Resident (Child)	Dermal	Benzo(a)anthracene	1.1E+01	mg/kg	5.6E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.6E-08	2.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	1.5E+01	mg/kg	7.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.8E-07	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
		Resident (Child)	Dermal	Benzo(b)fluoranthene	1.3E+01	mg/kg	1.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-07	4.3E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.9E-08	2.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.6E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	4.5E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	7.7E-08	mg/kg-day	1.0E-01	1/mg/kg-day	7.7E-09	3.1E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	1.1E+01	mg/kg	7.8E-06	mg/kg-day	1.0E-01	1/mg/kg-day	7.8E-07	3.1E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.5E+01	mg/kg	9.3E-06	mg/kg-day	1.0E+00	1/mg/kg-day	9.3E-06	3.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	1.3E+01	mg/kg	8.4E-06	mg/kg-day	1.0E-01	1/mg/kg-day	8.4E-07	3.3E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.4E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.4E-07	1.7E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.6E+00	mg/kg	1.7E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.7E-06	6.7E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	6.5E-06	mg/kg-day	1.0E-01	1/mg/kg-day	6.5E-07	2.6E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	1.1E+01	mg/kg	1.2E-04	ug/m3	6.0E-05	1/(ug/m3)	7.5E-09	4.9E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.5E+01	mg/kg	8.6E-07	ug/m3	6.0E-04	1/(ug/m3)	5.2E-10	3.4E-09	mg/m3	2.0E-06	mg/m3	1.7E-03
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	1.3E+01	mg/kg	7.7E-07	ug/m3	6.0E-05	1/(ug/m3)	4.6E-11	3.1E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.3E-07	ug/m3	6.0E-05	1/(ug/m3)	7.9E-12	1.5E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.6E+00	mg/kg	1.5E-07	ug/m3	6.0E-04	1/(ug/m3)	9.2E-11	6.1E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	6.0E-07	ug/m3	6.0E-05	1/(ug/m3)	3.6E-11	2.4E-09	mg/m3	NA	mg/m3	NA

TABLE 7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
 Receptor Population: Resident
 Receptor Age: Child
 Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
ISM Soil (0-2 in)	DU 056	Resident (Child)	Dermal	Benzo(a)pyrene	6.1E+00	mg/kg	3.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.3E-07	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.3E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	6.1E+00	mg/kg	5.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.1E-08	2.0E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	4.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.6E-08	1.8E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	1.0E+02	mg/kg	2.7E-04	mg/kg-day	NA	NA	NA	3.1E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	6.1E+00	mg/kg	3.9E-06	mg/kg-day	1.0E+00	1/mg/kg-day	3.9E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.2E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	6.1E+00	mg/kg	3.9E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.9E-07	1.6E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	6.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.8E-07	2.7E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	1.0E+02	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	1.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	6.1E+00	mg/kg	3.6E-07	ug/m3	6.0E-04	1/(ug/m3)	2.2E-10	1.4E-09	mg/m3	2.0E-06	mg/m3	7.2E-04
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	6.1E+00	mg/kg	3.6E-07	ug/m3	6.0E-05	1/(ug/m3)	2.2E-11	1.4E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	6.3E-08	ug/m3	6.0E-04	1/(ug/m3)	3.8E-11	2.5E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	1.0E+02	mg/kg	2.1E-06	ug/m3	NA	NA	NA	2.4E-08	mg/m3	NA	mg/m3	NA
	DU 064	Resident (Child)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	6.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.1E-08	2.4E-07	mg/kg-day	3.0E-04	mg/kg-day	8.1E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	7.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.4E-07	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.8E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	6.8E-08	ug/m3	6.0E-04	1/(ug/m3)	4.1E-11	2.7E-10	mg/m3	2.0E-06	mg/m3	1.4E-04
	DU 069	Resident (Child)	Dermal	Benzo(a)pyrene	1.9E+00	mg/kg	1.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-07	4.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.9E+00	mg/kg	1.2E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-06	4.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.9E+00	mg/kg	1.1E-07	ug/m3	6.0E-04	1/(ug/m3)	6.8E-11	4.5E-10	mg/m3	2.0E-06	mg/m3	2.3E-04
	DU 074	Resident (Child)	Dermal	Benzo(a)pyrene	4.6E+00	mg/kg	2.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.4E-07	9.7E-07	mg/kg-day	3.0E-04	mg/kg-day	3.2E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	8.1E-01	mg/kg	3.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.5E-08	1.4E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	1.0E+02	mg/kg	2.7E-04	mg/kg-day	NA	NA	NA	3.1E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	4.6E+00	mg/kg	2.9E-06	mg/kg-day	1.0E+00	1/mg/kg-day	2.9E-06	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	3.9E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	8.1E-01	mg/kg	5.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.2E-07	2.1E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	1.0E+02	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	1.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.6E+00	mg/kg	2.7E-07	ug/m3	6.0E-04	1/(ug/m3)	1.6E-10	1.1E-09	mg/m3	2.0E-06	mg/m3	5.4E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	8.1E-01	mg/kg	4.8E-08	ug/m3	6.0E-04	1/(ug/m3)	2.9E-11	1.9E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	1.0E+02	mg/kg	2.1E-06	ug/m3	NA	NA	NA	2.4E-08	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	1.0E+02	mg/kg	2.1E-06	ug/m3	NA	NA	NA	2.4E-08	mg/m3	NA	mg/m3	NA
	DU 077	Resident (Child)	Dermal	Benzo(a)pyrene	5.7E-01	mg/kg	3.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	4.0E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	5.7E-01	mg/kg	3.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.7E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	5.7E-01	mg/kg	3.4E-08	ug/m3	6.0E-04	1/(ug/m3)	2.0E-11	1.3E-10	mg/m3	2.0E-06	mg/m3	6.7E-05
	DU 134	Resident (Child)	Dermal	Benzo(a)pyrene	6.4E-01	mg/kg	3.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.4E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	6.4E-01	mg/kg	4.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.1E-07	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	5.4E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	6.4E-01	mg/kg	3.8E-08	ug/m3	6.0E-04	1/(ug/m3)	2.3E-11	1.5E-10	mg/m3	2.0E-06	mg/m3	7.5E-05
	DU 140	Resident (Child)	Dermal	Benzo(a)pyrene	8.6E-01	mg/kg	4.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.6E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	6.1E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	8.6E-01	mg/kg	5.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.5E-07	2.2E-06	mg/kg-day	3.0E-04	mg/kg-day	7.3E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	8.6E-01	mg/kg	5.1E-08	ug/m3	6.0E-04	1/(ug/m3)	3.1E-11	2.0E-10	mg/m3	2.0E-06	mg/m3	1.0E-04
	DU 464	Resident (Child)	Dermal	Benzo(a)pyrene	5.9E-01	mg/kg	3.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.1E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	4.2E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	5.9E-01	mg/kg	3.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.8E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	5.9E-01	mg/kg	3.5E-08	ug/m3	6.0E-04	1/(ug/m3)	2.1E-11	1.4E-10	mg/m3	2.0E-06	mg/m3	6.9E-05
	DU 465	Resident (Child)	Dermal	Benzo(a)pyrene	5.6E-01	mg/kg	3.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	4.0E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	5.6E-01	mg/kg	3.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.6E-07	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	5.6E-01	mg/kg	3.3E-08	ug/m3	6.0E-04	1/(ug/m3)	2.0E-11	1.3E-10	mg/m3	2.0E-06	mg/m3	6.6E-05

Notes:
 mg/kg = milligrams per kilogram.
 mg/kg-day = milligrams per kilogram per day.
 mg/m³ = milligrams per cubic meter.

ug/m³ = micrograms per cubic meter.
 NA = not available or not applicable

TABLE 7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current Stratification Soil (0-6 in)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RfD/RfC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Stratification Soil (0-6 in)	DU 003	Resident (Adult)	Dermal	Benzo(a)pyrene	9.3E-01	mg/kg	1.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-08	3.3E-08	mg/kg-day	3.0E-04	mg/kg-day	1.1E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	9.3E-01	mg/kg	9.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.9E-08	2.2E-07	mg/kg-day	3.0E-04	mg/kg-day	7.4E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	9.3E-01	mg/kg	2.9E-07	ug/m3	6.0E-04	1/(ug/m3)	1.7E-10	6.5E-10	mg/m3	2.0E-06	mg/m3	3.3E-04
	DU 009	Resident (Adult)	Dermal	Benzo(a)anthracene	1.4E+01	mg/kg	2.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.2E-08	5.0E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	1.7E+01	mg/kg	2.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-07	6.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	1.7E+01	mg/kg	4.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.2E-08	9.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	9.0E+00	mg/kg	1.4E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.4E-08	5.0E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	3.0E+00	mg/kg	3.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.9E-08	8.8E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	1.1E+01	mg/kg	2.4E-08	mg/kg-day	1.0E-01	1/mg/kg-day	2.4E-09	5.3E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	9.4E+01	mg/kg	1.4E-04	mg/kg-day	NA	NA	NA	4.8E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	1.4E+01	mg/kg	1.7E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-07	3.9E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.7E+01	mg/kg	1.9E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-06	4.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	1.7E+01	mg/kg	1.8E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.8E-07	4.0E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	9.0E+00	mg/kg	6.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.1E-08	2.1E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	3.0E+00	mg/kg	3.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.2E-07	7.3E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	1.1E+01	mg/kg	1.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-07	2.5E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	9.4E+01	mg/kg	3.2E-05	mg/kg-day	NA	NA	NA	1.1E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	1.4E+01	mg/kg	8.7E-04	ug/m3	6.0E-05	1/(ug/m3)	5.2E-08	2.0E-06	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.7E+01	mg/kg	5.4E-06	ug/m3	6.0E-04	1/(ug/m3)	3.3E-09	1.2E-08	mg/m3	2.0E-06	mg/m3	6.2E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	1.7E+01	mg/kg	5.3E-06	ug/m3	6.0E-05	1/(ug/m3)	3.2E-10	1.2E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	9.0E+00	mg/kg	1.8E-06	ug/m3	6.0E-05	1/(ug/m3)	1.1E-10	6.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	3.0E+00	mg/kg	9.5E-07	ug/m3	6.0E-04	1/(ug/m3)	5.7E-10	2.1E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	1.1E+01	mg/kg	3.3E-06	ug/m3	6.0E-05	1/(ug/m3)	2.0E-10	7.4E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	9.4E+01	mg/kg	1.9E-05	ug/m3	NA	NA	NA	6.7E-08	mg/m3	NA	mg/m3	NA
	DU 044	Resident (Adult)	Dermal	Benzo(a)pyrene	3.4E+00	mg/kg	5.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.4E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	4.1E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	6.5E-01	mg/kg	8.3E-09	mg/kg-day	1.0E+00	1/mg/kg-day	8.3E-09	1.9E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	3.4E+00	mg/kg	3.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.6E-07	8.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	6.5E-01	mg/kg	6.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.9E-08	1.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	3.4E+00	mg/kg	1.1E-06	ug/m3	6.0E-04	1/(ug/m3)	6.4E-10	2.4E-09	mg/m3	2.0E-06	mg/m3	1.2E-03
	DU 066	Resident (Adult)	Dermal	Benzo(a)pyrene	1.5E+00	mg/kg	2.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.4E-08	5.4E-08	mg/kg-day	3.0E-04	mg/kg-day	1.8E-04
		Resident (Adult)	Dermal	Lead	6.7E+01	mg/kg	9.7E-05	mg/kg-day	NA	NA	NA	3.4E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.5E+00	mg/kg	1.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-07	3.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.2E-03
		Resident (Adult)	Ingestion	Lead	6.7E+01	mg/kg	2.3E-05	mg/kg-day	NA	NA	NA	8.1E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.5E+00	mg/kg	4.7E-07	ug/m3	6.0E-04	1/(ug/m3)	2.8E-10	1.1E-09	mg/m3	2.0E-06	mg/m3	5.3E-04
		Resident (Adult)	Inhalation	Lead	6.7E+01	mg/kg	1.4E-05	ug/m3	NA	NA	NA	4.7E-08	mg/m3	NA	mg/m3	NA
	DU 132	Resident (Adult)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	1.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-08	4.3E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
		Resident (Adult)	Dermal	Lead	4.1E+02	mg/kg	5.9E-04	mg/kg-day	NA	NA	NA	2.1E-03	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	1.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-07	2.9E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04
		Resident (Adult)	Ingestion	Lead	4.1E+02	mg/kg	1.4E-04	mg/kg-day	NA	NA	NA	4.9E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	3.8E-07	ug/m3	6.0E-04	1/(ug/m3)	2.3E-10	8.7E-10	mg/m3	2.0E-06	mg/m3	4.3E-04
		Resident (Adult)	Inhalation	Lead	4.1E+02	mg/kg	8.3E-05	ug/m3	NA	NA	NA	2.9E-07	mg/m3	NA	mg/m3	NA
	DU 146	Resident (Adult)	Dermal	Lead	6.0E+01	mg/kg	8.7E-05	mg/kg-day	NA	NA	NA	3.1E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	6.0E+01	mg/kg	2.1E-05	mg/kg-day	NA	NA	NA	7.2E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Lead	6.0E+01	mg/kg	1.2E-05	ug/m3	NA	NA	NA	4.3E-08	mg/m3	NA	mg/m3	NA

TABLE 7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current Stratification Soil (0-6 in)
 Receptor Population: Resident
 Receptor Age: Adult
 Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RfD/RfC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Stratification Soil (0-6 in)	DU 151	Resident (Adult)	Dermal	Benzo(a)pyrene	4.7E-01	mg/kg	7.3E-09	mg/kg-day	1.0E+00	1/mg/kg-day	7.3E-09	1.7E-08	mg/kg-day	3.0E-04	mg/kg-day	5.5E-05
		Resident (Adult)	Dermal	Lead	5.1E+01	mg/kg	7.4E-05	mg/kg-day	NA	NA	NA	2.6E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.7E-01	mg/kg	5.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.0E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.7E-04
		Resident (Adult)	Ingestion	Lead	5.1E+01	mg/kg	1.7E-05	mg/kg-day	NA	NA	NA	6.1E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.7E-01	mg/kg	1.5E-07	ug/m3	6.0E-04	1/(ug/m3)	8.8E-11	3.3E-10	mg/m3	2.0E-06	mg/m3	1.6E-04
		Resident (Adult)	Inhalation	Lead	5.1E+01	mg/kg	1.0E-05	ug/m3	NA	NA	NA	3.6E-08	mg/m3	NA	mg/m3	NA

Notes:

mg/kg = milligrams per kilogram.

mg/kg-day = milligrams per kilogram per day.

mg/m³ = milligrams per cubic meter.

µg/m³ = micrograms per cubic meter.

NA = not available or not applicable

TABLE 7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current Stratification Soil (0-6 in)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RfD/RfC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Stratification Soil (0-6 in)	DU 003	Resident (Child)	Dermal	Benzo(a)pyrene	9.3E-01	mg/kg	5.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.0E-08	2.0E-07	mg/kg-day	3.0E-04	mg/kg-day	6.6E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	9.3E-01	mg/kg	6.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.0E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	7.9E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	9.3E-01	mg/kg	5.5E-08	ug/m3	6.0E-04	1/(ug/m3)	3.3E-11	2.2E-10	mg/m3	2.0E-06	mg/m3	1.1E-04
	DU 009	Resident (Child)	Dermal	Benzo(a)anthracene	1.4E+01	mg/kg	7.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	7.5E-08	3.0E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	1.7E+01	mg/kg	9.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	9.3E-07	3.7E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
		Resident (Child)	Dermal	Benzo(b)fluoranthene	1.7E+01	mg/kg	1.4E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.4E-07	5.6E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	9.0E+00	mg/kg	2.6E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.6E-08	3.0E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	3.0E+00	mg/kg	1.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-07	5.3E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	1.1E+01	mg/kg	8.0E-08	mg/kg-day	1.0E-01	1/mg/kg-day	8.0E-09	3.2E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	9.4E+01	mg/kg	2.5E-04	mg/kg-day	NA	NA	NA	2.9E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	1.4E+01	mg/kg	1.0E-05	mg/kg-day	1.0E-01	1/mg/kg-day	1.0E-06	4.1E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.7E+01	mg/kg	1.1E-05	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-05	4.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	1.7E+01	mg/kg	1.1E-05	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-06	4.3E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	9.0E+00	mg/kg	2.0E-06	mg/kg-day	1.0E-01	1/mg/kg-day	2.0E-07	2.3E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	3.0E+00	mg/kg	2.0E-06	mg/kg-day	1.0E+00	1/mg/kg-day	2.0E-06	7.8E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	1.1E+01	mg/kg	6.8E-06	mg/kg-day	1.0E-01	1/mg/kg-day	6.8E-07	2.7E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	9.4E+01	mg/kg	1.0E-04	mg/kg-day	NA	NA	NA	1.2E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	1.4E+01	mg/kg	1.6E-04	ug/m3	6.0E-05	1/(ug/m3)	9.9E-09	6.6E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.7E+01	mg/kg	1.0E-06	ug/m3	6.0E-04	1/(ug/m3)	6.2E-10	4.1E-09	mg/m3	2.0E-06	mg/m3	2.1E-03
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	1.7E+01	mg/kg	1.0E-06	ug/m3	6.0E-05	1/(ug/m3)	6.0E-11	4.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	9.0E+00	mg/kg	1.8E-07	ug/m3	6.0E-05	1/(ug/m3)	1.1E-11	2.1E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	3.0E+00	mg/kg	1.8E-07	ug/m3	6.0E-04	1/(ug/m3)	1.1E-10	7.1E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	1.1E+01	mg/kg	6.2E-07	ug/m3	6.0E-05	1/(ug/m3)	3.7E-11	2.5E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	9.4E+01	mg/kg	1.9E-06	ug/m3	NA	NA	NA	2.2E-08	mg/m3	NA	mg/m3	NA
	DU 044	Resident (Child)	Dermal	Benzo(a)pyrene	3.4E+00	mg/kg	1.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.8E-07	7.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.4E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	6.5E-01	mg/kg	2.8E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.8E-08	1.1E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	3.4E+00	mg/kg	2.2E-06	mg/kg-day	1.0E+00	1/mg/kg-day	2.2E-06	8.8E-06	mg/kg-day	3.0E-04	mg/kg-day	2.9E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	6.5E-01	mg/kg	4.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.2E-07	1.7E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	3.4E+00	mg/kg	2.0E-07	ug/m3	6.0E-04	1/(ug/m3)	1.2E-10	8.1E-10	mg/m3	2.0E-06	mg/m3	4.0E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	6.5E-01	mg/kg	3.8E-08	ug/m3	6.0E-04	1/(ug/m3)	2.3E-11	1.5E-10	mg/m3	NA	mg/m3	NA
	DU 066	Resident (Child)	Dermal	Benzo(a)pyrene	1.5E+00	mg/kg	8.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.1E-08	3.2E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
		Resident (Child)	Dermal	Lead	6.7E+01	mg/kg	1.7E-04	mg/kg-day	NA	NA	NA	2.0E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.5E+00	mg/kg	9.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	9.7E-07	3.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.3E-02
		Resident (Child)	Ingestion	Lead	6.7E+01	mg/kg	7.4E-05	mg/kg-day	NA	NA	NA	8.6E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.5E+00	mg/kg	8.9E-08	ug/m3	6.0E-04	1/(ug/m3)	5.4E-11	3.6E-10	mg/m3	2.0E-06	mg/m3	1.8E-04
		Resident (Child)	Inhalation	Lead	6.7E+01	mg/kg	1.4E-06	ug/m3	NA	NA	NA	1.6E-08	mg/m3	NA	mg/m3	NA
	DU 132	Resident (Child)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	6.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.6E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.7E-04
		Resident (Child)	Dermal	Lead	4.1E+02	mg/kg	1.1E-03	mg/kg-day	NA	NA	NA	1.2E-02	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	7.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.9E-07	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
		Resident (Child)	Ingestion	Lead	4.1E+02	mg/kg	4.5E-04	mg/kg-day	NA	NA	NA	5.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	7.3E-08	ug/m3	6.0E-04	1/(ug/m3)	4.4E-11	2.9E-10	mg/m3	2.0E-06	mg/m3	1.4E-04
		Resident (Child)	Inhalation	Lead	4.1E+02	mg/kg	8.3E-06	ug/m3	NA	NA	NA	9.7E-08	mg/m3	NA	mg/m3	NA
	DU 146	Resident (Child)	Dermal	Lead	6.0E+01	mg/kg	1.6E-04	mg/kg-day	NA	NA	NA	1.8E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	6.0E+01	mg/kg	6.6E-05	mg/kg-day	NA	NA	NA	7.7E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Lead	6.0E+01	mg/kg	1.2E-06	ug/m3	NA	NA	NA	1.4E-08	mg/m3	NA	mg/m3	NA

TABLE 7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current Stratification Soil (0-6 in)
 Receptor Population: Resident
 Receptor Age: Child
 Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RfD/RfC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Stratification Soil (0-6 in)	DU 151	Resident (Child)	Dermal	Benzo(a)pyrene	4.7E-01	mg/kg	2.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-08	9.9E-08	mg/kg-day	3.0E-04	mg/kg-day	3.3E-04
		Resident (Child)	Dermal	Lead	5.1E+01	mg/kg	1.3E-04	mg/kg-day	NA	NA	NA	1.5E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	4.7E-01	mg/kg	3.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.0E-03
		Resident (Child)	Ingestion	Lead	5.1E+01	mg/kg	5.6E-05	mg/kg-day	NA	NA	NA	6.5E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.7E-01	mg/kg	2.8E-08	ug/m3	6.0E-04	1/(ug/m3)	1.7E-11	1.1E-10	mg/m3	2.0E-06	mg/m3	5.5E-05
		Resident (Child)	Inhalation	Lead	5.1E+01	mg/kg	1.0E-06	ug/m3	NA	NA	NA	1.2E-08	mg/m3	NA	mg/m3	NA

Notes:

mg/kg = milligrams per kilogram.

mg/kg-day = milligrams per kilogram per day.

mg/m³ = milligrams per cubic meter.

µg/m³ = micrograms per cubic meter.

NA = not available or not applicable

TABLE 7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 002-08	Resident (Adult)	Dermal	Benzo(a)pyrene	7.5E-01	mg/kg	1.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-08	2.7E-08	mg/kg-day	3.0E-04	mg/kg-day	8.9E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	7.5E-01	mg/kg	8.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.0E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	6.0E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	7.5E-01	mg/kg	2.4E-07	ug/m3	6.0E-04	1/(ug/m3)	1.4E-10	5.3E-10	mg/m3	2.0E-06	mg/m3	2.7E-04
	DU 009	Resident (Adult)	Dermal	Benzo(a)pyrene	6.6E-01	mg/kg	1.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-08	2.3E-08	mg/kg-day	3.0E-04	mg/kg-day	7.7E-05
		Resident (Adult)	Dermal	Lead	2.7E+01	mg/kg	4.0E-05	mg/kg-day	NA	NA	NA	1.4E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	6.6E-01	mg/kg	7.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	7.0E-08	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.2E-04
		Resident (Adult)	Ingestion	Lead	2.7E+01	mg/kg	9.4E-06	mg/kg-day	NA	NA	NA	3.3E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	6.6E-01	mg/kg	2.0E-07	ug/m3	6.0E-04	1/(ug/m3)	1.2E-10	4.6E-10	mg/m3	2.0E-06	mg/m3	2.3E-04
		Resident (Adult)	Inhalation	Lead	2.7E+01	mg/kg	5.5E-06	ug/m3	NA	NA	NA	1.9E-08	mg/m3	NA	mg/m3	NA
	DU 010	Resident (Adult)	Dermal	Benzo(a)pyrene	4.7E-01	mg/kg	7.4E-09	mg/kg-day	1.0E+00	1/mg/kg-day	7.4E-09	1.7E-08	mg/kg-day	3.0E-04	mg/kg-day	5.6E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.7E-01	mg/kg	5.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.0E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.7E-01	mg/kg	1.5E-07	ug/m3	6.0E-04	1/(ug/m3)	8.9E-11	3.3E-10	mg/m3	2.0E-06	mg/m3	1.7E-04
	DU 010-03	Resident (Adult)	Dermal	Benzo(a)anthracene	4.1E+00	mg/kg	6.4E-08	mg/kg-day	1.0E-01	1/mg/kg-day	6.4E-09	1.5E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	5.1E+00	mg/kg	8.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.0E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	6.0E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	4.9E+00	mg/kg	1.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.2E-08	2.7E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	2.7E+00	mg/kg	4.3E-08	mg/kg-day	1.0E-01	1/mg/kg-day	4.3E-09	1.5E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	9.7E-01	mg/kg	1.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-08	2.8E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	3.4E+00	mg/kg	7.7E-09	mg/kg-day	1.0E-01	1/mg/kg-day	7.7E-10	1.7E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	3.9E+01	mg/kg	5.6E-05	mg/kg-day	NA	NA	NA	2.0E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	4.1E+00	mg/kg	5.0E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.0E-08	1.1E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	5.1E+00	mg/kg	5.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.4E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.1E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	4.9E+00	mg/kg	5.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.2E-08	1.2E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	2.7E+00	mg/kg	1.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.8E-08	6.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	9.7E-01	mg/kg	1.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-07	2.3E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	3.4E+00	mg/kg	3.6E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.6E-08	8.2E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	3.9E+01	mg/kg	1.3E-05	mg/kg-day	NA	NA	NA	4.6E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	4.1E+00	mg/kg	2.5E-04	ug/m3	6.0E-05	1/(ug/m3)	1.5E-08	5.8E-07	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	5.1E+00	mg/kg	1.6E-06	ug/m3	6.0E-04	1/(ug/m3)	9.5E-10	3.6E-09	mg/m3	2.0E-06	mg/m3	1.8E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	4.9E+00	mg/kg	1.5E-06	ug/m3	6.0E-05	1/(ug/m3)	9.2E-11	3.5E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	2.7E+00	mg/kg	5.4E-07	ug/m3	6.0E-05	1/(ug/m3)	3.2E-11	1.9E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	9.7E-01	mg/kg	3.0E-07	ug/m3	6.0E-04	1/(ug/m3)	1.8E-10	6.8E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	3.4E+00	mg/kg	1.1E-06	ug/m3	6.0E-05	1/(ug/m3)	6.4E-11	2.4E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	3.9E+01	mg/kg	7.8E-06	ug/m3	NA	NA	NA	2.7E-08	mg/m3	NA	mg/m3	NA
	DU 010-04	Resident (Adult)	Dermal	Benzo(a)anthracene	3.4E+01	mg/kg	5.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.3E-08	1.2E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	4.2E+01	mg/kg	6.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.6E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	3.9E+01	mg/kg	9.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	9.7E-08	2.2E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	2.1E+01	mg/kg	3.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.3E-08	1.1E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(k)fluoranthene	2.0E+01	mg/kg	1.6E-07	mg/kg-day	1.0E-02	1/mg/kg-day	1.6E-09	3.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	6.7E+00	mg/kg	8.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.5E-08	1.9E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	2.5E+01	mg/kg	5.5E-08	mg/kg-day	1.0E-01	1/mg/kg-day	5.5E-09	1.3E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	9.7E+01	mg/kg	1.4E-04	mg/kg-day	NA	NA	NA	4.9E-04	mg/kg-day	NA	NA	NA

TABLE 7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 010-04	Resident (Adult)	Ingestion	Benzo(a)anthracene	3.4E+01	mg/kg	4.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	4.1E-07	9.4E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.2E+01	mg/kg	4.4E-06	mg/kg-day	1.0E+00	1/mg/kg-day	4.4E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.3E-02
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	3.9E+01	mg/kg	4.2E-06	mg/kg-day	1.0E-01	1/mg/kg-day	4.2E-07	9.4E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	2.1E+01	mg/kg	1.4E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.4E-07	5.0E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(k)fluoranthene	2.0E+01	mg/kg	2.1E-06	mg/kg-day	1.0E-02	1/mg/kg-day	2.1E-08	4.8E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	6.7E+00	mg/kg	7.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.1E-07	1.6E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	2.5E+01	mg/kg	2.6E-06	mg/kg-day	1.0E-01	1/mg/kg-day	2.6E-07	5.9E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	9.7E+01	mg/kg	3.3E-05	mg/kg-day	NA	NA	NA	1.2E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	3.4E+01	mg/kg	2.1E-03	ug/m3	6.0E-05	1/(ug/m3)	1.3E-07	4.8E-06	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.2E+01	mg/kg	1.3E-05	ug/m3	6.0E-04	1/(ug/m3)	7.8E-09	2.9E-08	mg/m3	2.0E-06	mg/m3	1.5E-02
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	3.9E+01	mg/kg	1.2E-05	ug/m3	6.0E-05	1/(ug/m3)	7.4E-10	2.8E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	2.1E+01	mg/kg	4.2E-06	ug/m3	6.0E-05	1/(ug/m3)	2.5E-10	1.5E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(k)fluoranthene	2.0E+01	mg/kg	6.3E-06	ug/m3	6.0E-06	1/(ug/m3)	3.8E-11	1.4E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	6.7E+00	mg/kg	2.1E-06	ug/m3	6.0E-04	1/(ug/m3)	1.3E-09	4.7E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	2.5E+01	mg/kg	7.7E-06	ug/m3	6.0E-05	1/(ug/m3)	4.6E-10	1.7E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	9.7E+01	mg/kg	2.0E-05	ug/m3	NA	NA	NA	6.9E-08	mg/m3	NA	mg/m3	NA
	DU 010-06	Resident (Adult)	Dermal	Benzo(a)anthracene	1.4E+01	mg/kg	2.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.1E-08	4.8E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	1.7E+01	mg/kg	2.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-07	6.0E-07	mg/kg-day	3.0E-04	mg/kg-day	2.0E-03
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	1.6E+01	mg/kg	4.0E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.0E-08	8.9E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	8.4E+00	mg/kg	1.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.3E-08	4.7E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	3.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.6E-08	8.2E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	2.3E-08	mg/kg-day	1.0E-01	1/mg/kg-day	2.3E-09	5.2E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	1.3E+02	mg/kg	1.8E-04	mg/kg-day	NA	NA	NA	6.5E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	1.4E+01	mg/kg	1.7E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-07	3.8E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.7E+01	mg/kg	1.8E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.8E-06	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	1.6E+01	mg/kg	1.7E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-07	3.8E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	8.4E+00	mg/kg	5.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.8E-08	2.0E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	3.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-07	6.8E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	1.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-07	2.5E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	1.3E+02	mg/kg	4.4E-05	mg/kg-day	NA	NA	NA	1.5E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	1.4E+01	mg/kg	8.5E-04	ug/m3	6.0E-05	1/(ug/m3)	5.1E-08	1.9E-06	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.7E+01	mg/kg	5.3E-06	ug/m3	6.0E-04	1/(ug/m3)	3.2E-09	1.2E-08	mg/m3	2.0E-06	mg/m3	6.0E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	1.6E+01	mg/kg	5.0E-06	ug/m3	6.0E-05	1/(ug/m3)	3.0E-10	1.1E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	8.4E+00	mg/kg	1.7E-06	ug/m3	6.0E-05	1/(ug/m3)	1.0E-10	5.9E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	8.9E-07	ug/m3	6.0E-04	1/(ug/m3)	5.3E-10	2.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	3.2E-06	ug/m3	6.0E-05	1/(ug/m3)	1.9E-10	7.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	1.3E+02	mg/kg	2.6E-05	ug/m3	NA	NA	NA	9.0E-08	mg/m3	NA	mg/m3	NA
	DU 016	Resident (Adult)	Dermal	Benzo(a)anthracene	1.5E+00	mg/kg	2.3E-08	mg/kg-day	1.0E-01	1/mg/kg-day	2.3E-09	5.1E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	1.5E+00	mg/kg	2.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.4E-08	5.4E-08	mg/kg-day	3.0E-04	mg/kg-day	1.8E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	2.7E-09	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-09	6.1E-09	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	1.5E+00	mg/kg	1.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.8E-08	4.0E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.5E+00	mg/kg	1.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-07	3.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.2E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	2.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.3E-08	5.1E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	1.5E+00	mg/kg	9.0E-05	ug/m3	6.0E-05	1/(ug/m3)	5.4E-09	2.0E-07	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.5E+00	mg/kg	4.7E-07	ug/m3	6.0E-04	1/(ug/m3)	2.8E-10	1.1E-09	mg/m3	2.0E-06	mg/m3	5.4E-04
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	6.6E-08	ug/m3	6.0E-04	1/(ug/m3)	4.0E-11	1.5E-10	mg/m3	NA	mg/m3	NA
	DU 019-01	Resident (Adult)	Dermal	Benzo(a)pyrene	5.1E-01	mg/kg	8.0E-09	mg/kg-day	1.0E+00	1/mg/kg-day	8.0E-09	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	6.0E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	5.1E-01	mg/kg	5.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.4E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	4.1E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	5.1E-01	mg/kg	1.6E-07	ug/m3	6.0E-04	1/(ug/m3)	9.6E-11	3.6E-10	mg/m3	2.0E-06	mg/m3	1.8E-04

TABLE 7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RfD/RfC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 038	Resident (Adult)	Dermal	Benzo(a)anthracene	2.0E+00	mg/kg	3.2E-08	mg/kg-day	1.0E-01	1/mg/kg-day	3.2E-09	7.2E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	2.1E+00	mg/kg	3.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.3E-08	7.4E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	1.8E+00	mg/kg	4.5E-08	mg/kg-day	1.0E-01	1/mg/kg-day	4.5E-09	1.0E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	3.1E-09	mg/kg-day	1.0E+00	1/mg/kg-day	3.1E-09	6.9E-09	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	4.2E+01	mg/kg	6.0E-05	mg/kg-day	NA	NA	NA	2.1E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	2.0E+00	mg/kg	2.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.5E-08	5.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	2.1E+00	mg/kg	2.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.2E-07	5.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.7E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.9E-08	4.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	2.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-08	5.8E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	4.2E+01	mg/kg	1.4E-05	mg/kg-day	NA	NA	NA	5.0E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	2.0E+00	mg/kg	1.3E-04	ug/m3	6.0E-05	1/(ug/m3)	7.8E-09	2.8E-07	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	2.1E+00	mg/kg	6.5E-07	ug/m3	6.0E-04	1/(ug/m3)	3.9E-10	1.5E-09	mg/m3	2.0E-06	mg/m3	7.3E-04
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	1.8E+00	mg/kg	5.7E-07	ug/m3	6.0E-05	1/(ug/m3)	3.4E-11	1.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	7.5E-08	ug/m3	6.0E-04	1/(ug/m3)	4.5E-11	1.7E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	4.2E+01	mg/kg	8.4E-06	ug/m3	NA	NA	NA	2.9E-08	mg/m3	NA	mg/m3	NA
	DU 040	Resident (Adult)	Dermal	Benzo(a)anthracene	5.3E+00	mg/kg	8.3E-08	mg/kg-day	1.0E-01	1/mg/kg-day	8.3E-09	1.9E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	5.5E+00	mg/kg	8.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.7E-08	2.0E-07	mg/kg-day	3.0E-04	mg/kg-day	6.5E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	5.1E+00	mg/kg	1.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.3E-08	2.9E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	2.8E+00	mg/kg	4.5E-08	mg/kg-day	1.0E-01	1/mg/kg-day	4.5E-09	1.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	5.4E-01	mg/kg	6.9E-09	mg/kg-day	1.0E+00	1/mg/kg-day	6.9E-09	1.5E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	3.2E+00	mg/kg	7.2E-09	mg/kg-day	1.0E-01	1/mg/kg-day	7.2E-10	1.6E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	3.5E+01	mg/kg	5.1E-05	mg/kg-day	NA	NA	NA	1.8E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	5.3E+00	mg/kg	6.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.5E-08	1.5E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	5.5E+00	mg/kg	5.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.9E-07	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.4E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	5.1E+00	mg/kg	5.4E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.4E-08	1.2E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	2.8E+00	mg/kg	1.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.9E-08	6.8E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	5.4E-01	mg/kg	5.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.7E-08	1.3E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	3.2E+00	mg/kg	3.4E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.4E-08	7.7E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	3.5E+01	mg/kg	1.2E-05	mg/kg-day	NA	NA	NA	4.2E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	5.3E+00	mg/kg	3.3E-04	ug/m3	6.0E-05	1/(ug/m3)	2.0E-08	7.4E-07	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	5.5E+00	mg/kg	1.7E-06	ug/m3	6.0E-04	1/(ug/m3)	1.0E-09	3.9E-09	mg/m3	2.0E-06	mg/m3	1.9E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	5.1E+00	mg/kg	1.6E-06	ug/m3	6.0E-05	1/(ug/m3)	9.8E-11	3.6E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	2.8E+00	mg/kg	5.7E-07	ug/m3	6.0E-05	1/(ug/m3)	3.4E-11	2.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	5.4E-01	mg/kg	1.7E-07	ug/m3	6.0E-04	1/(ug/m3)	1.0E-10	3.8E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	3.2E+00	mg/kg	1.0E-06	ug/m3	6.0E-05	1/(ug/m3)	6.0E-11	2.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	3.5E+01	mg/kg	7.1E-06	ug/m3	NA	NA	NA	2.5E-08	mg/m3	NA	mg/m3	NA
	DU 044	Resident (Adult)	Dermal	Benzo(a)anthracene	8.0E+00	mg/kg	1.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.3E-08	2.8E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	9.8E+00	mg/kg	1.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-07	3.5E-07	mg/kg-day	3.0E-04	mg/kg-day	1.2E-03
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	9.1E+00	mg/kg	2.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.3E-08	5.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	3.2E+00	mg/kg	5.1E-08	mg/kg-day	1.0E-01	1/mg/kg-day	5.1E-09	1.8E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	1.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-08	3.1E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	5.9E+00	mg/kg	1.3E-08	mg/kg-day	1.0E-01	1/mg/kg-day	1.3E-09	3.0E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	8.7E+01	mg/kg	1.3E-04	mg/kg-day	NA	NA	NA	4.4E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	8.0E+00	mg/kg	9.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	9.8E-08	2.2E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	9.8E+00	mg/kg	1.0E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-06	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.8E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	9.1E+00	mg/kg	9.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	9.7E-08	2.2E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	3.2E+00	mg/kg	2.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.2E-08	7.7E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	2.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	5.9E+00	mg/kg	6.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.3E-08	1.4E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	8.7E+01	mg/kg	3.0E-05	mg/kg-day	NA	NA	NA	1.0E-04	mg/kg-day	NA	NA	NA

TABLE 7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 044	Resident (Adult)	Inhalation	Benzo(a)anthracene	8.0E+00	mg/kg	5.0E-04	ug/m3	6.0E-05	1/(ug/m3)	3.0E-08	1.1E-06	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	9.8E+00	mg/kg	3.0E-06	ug/m3	6.0E-04	1/(ug/m3)	1.8E-09	6.9E-09	mg/m3	2.0E-06	mg/m3	3.4E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	9.1E+00	mg/kg	2.9E-06	ug/m3	6.0E-05	1/(ug/m3)	1.7E-10	6.5E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	3.2E+00	mg/kg	6.5E-07	ug/m3	6.0E-05	1/(ug/m3)	3.9E-11	2.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	3.3E-07	ug/m3	6.0E-04	1/(ug/m3)	2.0E-10	7.5E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	5.9E+00	mg/kg	1.8E-06	ug/m3	6.0E-05	1/(ug/m3)	1.1E-10	4.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	8.7E+01	mg/kg	1.8E-05	ug/m3	NA	NA	NA	6.1E-08	mg/m3	NA	mg/m3	NA
	DU 046	Resident (Adult)	Dermal	Benzo(a)pyrene	8.4E-01	mg/kg	1.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-08	3.0E-08	mg/kg-day	3.0E-04	mg/kg-day	9.9E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	8.4E-01	mg/kg	8.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.9E-08	2.0E-07	mg/kg-day	3.0E-04	mg/kg-day	6.7E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	8.4E-01	mg/kg	2.6E-07	ug/m3	6.0E-04	1/(ug/m3)	1.6E-10	5.9E-10	mg/m3	2.0E-06	mg/m3	3.0E-04
	DU 050	Resident (Adult)	Dermal	Benzo(a)anthracene	1.1E+01	mg/kg	1.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-08	3.9E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	1.4E+01	mg/kg	2.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.1E-07	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	1.3E+01	mg/kg	3.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.1E-08	7.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.0E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.0E-08	3.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.3E+00	mg/kg	2.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.9E-08	6.5E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	8.5E+00	mg/kg	1.9E-08	mg/kg-day	1.0E-01	1/mg/kg-day	1.9E-09	4.3E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	8.0E+01	mg/kg	1.2E-04	mg/kg-day	NA	NA	NA	4.1E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	1.1E+01	mg/kg	1.3E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.3E-07	3.0E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.4E+01	mg/kg	1.4E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-06	3.3E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	1.3E+01	mg/kg	1.4E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.4E-07	3.1E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	6.5E+00	mg/kg	4.4E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.4E-08	1.5E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.3E+00	mg/kg	2.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.4E-07	5.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	8.5E+00	mg/kg	9.0E-07	mg/kg-day	1.0E-01	1/mg/kg-day	9.0E-08	2.0E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	8.0E+01	mg/kg	2.8E-05	mg/kg-day	NA	NA	NA	9.6E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	1.1E+01	mg/kg	6.8E-04	ug/m3	6.0E-05	1/(ug/m3)	4.1E-08	1.5E-06	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.4E+01	mg/kg	4.3E-06	ug/m3	6.0E-04	1/(ug/m3)	2.6E-09	9.6E-09	mg/m3	2.0E-06	mg/m3	4.8E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	1.3E+01	mg/kg	4.0E-06	ug/m3	6.0E-05	1/(ug/m3)	2.4E-10	9.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.3E-06	ug/m3	6.0E-05	1/(ug/m3)	7.8E-11	4.6E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.3E+00	mg/kg	7.1E-07	ug/m3	6.0E-04	1/(ug/m3)	4.2E-10	1.6E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	8.5E+00	mg/kg	2.7E-06	ug/m3	6.0E-05	1/(ug/m3)	1.6E-10	6.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	8.0E+01	mg/kg	1.6E-05	ug/m3	NA	NA	NA	5.7E-08	mg/m3	NA	mg/m3	NA
	DU 053	Resident (Adult)	Dermal	Benzo(a)pyrene	1.6E+00	mg/kg	2.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-08	5.7E-08	mg/kg-day	3.0E-04	mg/kg-day	1.9E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	3.0E-01	mg/kg	3.8E-09	mg/kg-day	1.0E+00	1/mg/kg-day	3.8E-09	8.6E-09	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.6E+00	mg/kg	1.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.7E-07	3.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	3.0E-01	mg/kg	3.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.2E-08	7.1E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.6E+00	mg/kg	5.0E-07	ug/m3	6.0E-04	1/(ug/m3)	3.0E-10	1.1E-09	mg/m3	2.0E-06	mg/m3	5.7E-04
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	3.0E-01	mg/kg	9.3E-08	ug/m3	6.0E-04	1/(ug/m3)	5.8E-11	2.1E-10	mg/m3	NA	mg/m3	NA
	DU 056	Resident (Adult)	Dermal	Benzo(a)pyrene	7.8E-01	mg/kg	1.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-08	2.8E-08	mg/kg-day	3.0E-04	mg/kg-day	9.2E-05
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.9E-09	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-09	4.3E-09	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	4.8E+01	mg/kg	7.0E-05	mg/kg-day	NA	NA	NA	2.4E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	7.8E-01	mg/kg	8.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.3E-08	1.9E-07	mg/kg-day	3.0E-04	mg/kg-day	6.2E-04
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	1.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-08	3.5E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	4.8E+01	mg/kg	1.6E-05	mg/kg-day	NA	NA	NA	5.8E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	7.8E-01	mg/kg	2.4E-07	ug/m3	6.0E-04	1/(ug/m3)	1.5E-10	5.5E-10	mg/m3	2.0E-06	mg/m3	2.7E-04
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	4.6E-08	ug/m3	6.0E-04	1/(ug/m3)	2.8E-11	1.0E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	4.8E+01	mg/kg	9.7E-06	ug/m3	NA	NA	NA	3.4E-08	mg/m3	NA	mg/m3	NA
	DU 058	Resident (Adult)	Dermal	Lead	6.9E+01	mg/kg	1.0E-04	mg/kg-day	NA	NA	NA	3.5E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	6.9E+01	mg/kg	2.4E-05	mg/kg-day	NA	NA	NA	8.3E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Lead	6.9E+01	mg/kg	1.4E-05	ug/m3	NA	NA	NA	4.9E-08	mg/m3	NA	mg/m3	NA

TABLE 7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 063	Resident (Adult)	Dermal	Lead	4.0E+01	mg/kg	5.7E-05	mg/kg-day	NA	NA	NA	2.0E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	4.0E+01	mg/kg	1.4E-05	mg/kg-day	NA	NA	NA	4.8E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Lead	4.0E+01	mg/kg	8.0E-06	ug/m3	NA	NA	NA	2.8E-08	mg/m3	NA	mg/m3	NA
	DU 064	Resident (Adult)	Dermal	Benzo(a)anthracene	3.1E+00	mg/kg	4.9E-08	mg/kg-day	1.0E-01	1/mg/kg-day	4.9E-09	1.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	7.0E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.3E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	6.2E+00	mg/kg	1.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.5E-08	3.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	3.3E+00	mg/kg	5.3E-08	mg/kg-day	1.0E-01	1/mg/kg-day	5.3E-09	1.9E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	1.2E+00	mg/kg	1.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-08	3.4E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	4.5E+00	mg/kg	1.0E-08	mg/kg-day	1.0E-01	1/mg/kg-day	1.0E-09	2.3E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	1.1E+02	mg/kg	1.6E-04	mg/kg-day	NA	NA	NA	5.6E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	3.1E+00	mg/kg	3.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.8E-08	8.6E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	7.0E+00	mg/kg	7.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.4E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.6E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	6.2E+00	mg/kg	6.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.5E-08	1.5E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	3.3E+00	mg/kg	2.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.3E-08	8.0E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	1.2E+00	mg/kg	1.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-07	2.8E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	4.5E+00	mg/kg	4.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.8E-08	1.1E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	1.1E+02	mg/kg	3.8E-05	mg/kg-day	NA	NA	NA	1.3E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	3.1E+00	mg/kg	1.9E-04	ug/m3	6.0E-05	1/(ug/m3)	1.2E-08	4.4E-07	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	7.0E+00	mg/kg	2.2E-06	ug/m3	6.0E-04	1/(ug/m3)	1.3E-09	4.9E-09	mg/m3	2.0E-06	mg/m3	2.5E-03
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	6.2E+00	mg/kg	1.9E-06	ug/m3	6.0E-05	1/(ug/m3)	1.2E-10	4.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	3.3E+00	mg/kg	6.7E-07	ug/m3	6.0E-05	1/(ug/m3)	4.0E-11	2.3E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	1.2E+00	mg/kg	3.7E-07	ug/m3	6.0E-04	1/(ug/m3)	2.2E-10	8.4E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	4.5E+00	mg/kg	1.4E-06	ug/m3	6.0E-05	1/(ug/m3)	8.5E-11	3.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	1.1E+02	mg/kg	2.2E-05	ug/m3	NA	NA	NA	7.8E-08	mg/m3	NA	mg/m3	NA
	DU 066	Resident (Adult)	Dermal	Benzo(a)pyrene	2.9E-01	mg/kg	4.6E-09	mg/kg-day	1.0E+00	1/mg/kg-day	4.6E-09	1.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.5E-05
		Resident (Adult)	Dermal	Lead	5.9E+01	mg/kg	8.5E-05	mg/kg-day	NA	NA	NA	3.0E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	2.9E-01	mg/kg	3.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.1E-08	7.0E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
		Resident (Adult)	Ingestion	Lead	5.9E+01	mg/kg	2.0E-05	mg/kg-day	NA	NA	NA	7.1E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	2.9E-01	mg/kg	9.2E-08	ug/m3	6.0E-04	1/(ug/m3)	5.5E-11	2.1E-10	mg/m3	2.0E-06	mg/m3	1.0E-04
		Resident (Adult)	Inhalation	Lead	5.9E+01	mg/kg	1.2E-05	ug/m3	NA	NA	NA	4.2E-08	mg/m3	NA	mg/m3	NA
	DU 074	Resident (Adult)	Dermal	Benzo(a)anthracene	3.9E+01	mg/kg	6.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.1E-08	1.4E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	4.7E+01	mg/kg	7.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.3E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.5E-03
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	4.3E+01	mg/kg	1.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-07	2.4E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(j)fluoranthene	2.3E+01	mg/kg	3.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	3.7E-08	1.3E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(k)fluoranthene	2.2E+01	mg/kg	1.7E-07	mg/kg-day	1.0E-02	1/mg/kg-day	1.7E-09	4.0E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	7.2E+00	mg/kg	9.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.2E-08	2.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Indeno(1,2,3-cd)pyrene	2.6E+01	mg/kg	5.7E-08	mg/kg-day	1.0E-01	1/mg/kg-day	5.7E-09	1.3E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	1.3E+02	mg/kg	1.8E-04	mg/kg-day	NA	NA	NA	6.3E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	3.9E+01	mg/kg	4.8E-06	mg/kg-day	1.0E-01	1/mg/kg-day	4.8E-07	1.1E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.7E+01	mg/kg	5.0E-06	mg/kg-day	1.0E+00	1/mg/kg-day	5.0E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	4.3E+01	mg/kg	4.5E-06	mg/kg-day	1.0E-01	1/mg/kg-day	4.5E-07	1.0E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(j)fluoranthene	2.3E+01	mg/kg	1.6E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.6E-07	5.5E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(k)fluoranthene	2.2E+01	mg/kg	2.4E-06	mg/kg-day	1.0E-02	1/mg/kg-day	2.4E-08	5.3E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	7.2E+00	mg/kg	7.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.6E-07	1.7E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Indeno(1,2,3-cd)pyrene	2.6E+01	mg/kg	2.7E-06	mg/kg-day	1.0E-01	1/mg/kg-day	2.7E-07	6.1E-06	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	1.3E+02	mg/kg	4.3E-05	mg/kg-day	NA	NA	NA	1.5E-04	mg/kg-day	NA	NA	NA

TABLE 7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations						Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR		Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units			Value	Units	Value	Units	
Soil (0-12 ft)	DU 074	Resident (Adult)	Inhalation	Benzo(a)anthracene	3.9E+01	mg/kg	2.4E-03	ug/m3	6.0E-05	1/(ug/m3)	1.5E-07		5.5E-06	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.7E+01	mg/kg	1.5E-05	ug/m3	6.0E-04	1/(ug/m3)	8.8E-09		3.3E-08	mg/m3	2.0E-06	mg/m3	1.6E-02
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	4.3E+01	mg/kg	1.3E-05	ug/m3	6.0E-05	1/(ug/m3)	8.0E-10		3.0E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(j)fluoranthene	2.3E+01	mg/kg	4.6E-06	ug/m3	6.0E-05	1/(ug/m3)	2.8E-10		1.6E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(k)fluoranthene	2.2E+01	mg/kg	7.0E-06	ug/m3	6.0E-06	1/(ug/m3)	4.2E-11		1.6E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	7.2E+00	mg/kg	2.2E-06	ug/m3	6.0E-04	1/(ug/m3)	1.3E-09		5.1E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Indeno(1,2,3-cd)pyrene	2.6E+01	mg/kg	8.0E-06	ug/m3	6.0E-05	1/(ug/m3)	4.8E-10		1.8E-08	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	1.3E+02	mg/kg	2.5E-05	ug/m3	NA	NA	NA		8.8E-08	mg/m3	NA	mg/m3	NA
	DU 077	Resident (Adult)	Dermal	Benzo(a)pyrene	7.7E-01	mg/kg	1.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-08		2.7E-08	mg/kg-day	3.0E-04	mg/kg-day	9.1E-05
		Resident (Adult)	Ingestion	Benzo(a)pyrene	7.7E-01	mg/kg	8.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.2E-08		1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	6.2E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	7.7E-01	mg/kg	2.4E-07	ug/m3	6.0E-04	1/(ug/m3)	1.4E-10		5.4E-10	mg/m3	2.0E-06	mg/m3	2.7E-04
	DU 080	Resident (Adult)	Dermal	Benzo(a)pyrene	1.8E+00	mg/kg	2.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.9E-08		6.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.2E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	4.9E-01	mg/kg	6.3E-09	mg/kg-day	1.0E+00	1/mg/kg-day	6.3E-09		1.4E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	4.3E+01	mg/kg	6.3E-05	mg/kg-day	NA	NA	NA		2.2E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.8E+00	mg/kg	2.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.0E-07		4.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	4.9E-01	mg/kg	5.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.2E-08		1.2E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	4.3E+01	mg/kg	1.5E-05	mg/kg-day	NA	NA	NA		5.2E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.8E+00	mg/kg	5.8E-07	ug/m3	6.0E-04	1/(ug/m3)	3.5E-10		1.3E-09	mg/m3	2.0E-06	mg/m3	6.5E-04
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	4.9E-01	mg/kg	1.5E-07	ug/m3	6.0E-04	1/(ug/m3)	9.2E-11		3.5E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	4.3E+01	mg/kg	8.8E-06	ug/m3	NA	NA	NA		3.1E-08	mg/m3	NA	mg/m3	NA
	DU 082	Resident (Adult)	Dermal	Benzo(a)pyrene	1.9E+00	mg/kg	3.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-08		6.7E-08	mg/kg-day	3.0E-04	mg/kg-day	2.2E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	2.6E-09	mg/kg-day	1.0E+00	1/mg/kg-day	2.6E-09		5.9E-09	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.9E+00	mg/kg	2.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.0E-07		4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	2.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.2E-08		4.9E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.9E+00	mg/kg	5.9E-07	ug/m3	6.0E-04	1/(ug/m3)	3.6E-10		1.3E-09	mg/m3	2.0E-06	mg/m3	6.7E-04
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	6.4E-08	ug/m3	6.0E-04	1/(ug/m3)	3.8E-11		1.4E-10	mg/m3	NA	mg/m3	NA
	DU 083	Resident (Adult)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	1.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.7E-08		3.9E-08	mg/kg-day	3.0E-04	mg/kg-day	1.3E-04
		Resident (Adult)	Dermal	Lead	4.2E+01	mg/kg	6.1E-05	mg/kg-day	NA	NA	NA		2.1E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	1.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-07		2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
		Resident (Adult)	Ingestion	Lead	4.2E+01	mg/kg	1.4E-05	mg/kg-day	NA	NA	NA		5.1E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	3.4E-07	ug/m3	6.0E-04	1/(ug/m3)	2.1E-10		7.7E-10	mg/m3	2.0E-06	mg/m3	3.9E-04
		Resident (Adult)	Inhalation	Lead	4.2E+01	mg/kg	8.5E-06	ug/m3	NA	NA	NA		3.0E-08	mg/m3	NA	mg/m3	NA
	DU 084	Resident (Adult)	Dermal	Benzo(a)pyrene	4.6E-01	mg/kg	7.2E-09	mg/kg-day	1.0E+00	1/mg/kg-day	7.2E-09		1.6E-08	mg/kg-day	3.0E-04	mg/kg-day	5.5E-05
		Resident (Adult)	Dermal	Lead	4.5E+01	mg/kg	6.5E-05	mg/kg-day	NA	NA	NA		2.3E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	4.6E-01	mg/kg	4.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.9E-08		1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.7E-04
		Resident (Adult)	Ingestion	Lead	4.5E+01	mg/kg	1.5E-05	mg/kg-day	NA	NA	NA		5.4E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	4.6E-01	mg/kg	1.4E-07	ug/m3	6.0E-04	1/(ug/m3)	8.7E-11		3.3E-10	mg/m3	2.0E-06	mg/m3	1.6E-04
		Resident (Adult)	Inhalation	Lead	4.5E+01	mg/kg	9.0E-06	ug/m3	NA	NA	NA		3.2E-08	mg/m3	NA	mg/m3	NA
	DU 087	Resident (Adult)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	1.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.7E-08		3.8E-08	mg/kg-day	3.0E-04	mg/kg-day	1.3E-04
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07		2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.6E-04
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	3.3E-07	ug/m3	6.0E-04	1/(ug/m3)	2.0E-10		7.6E-10	mg/m3	2.0E-06	mg/m3	3.8E-04
	DU 095	Resident (Adult)	Dermal	Lead	9.1E+01	mg/kg	1.3E-04	mg/kg-day	NA	NA	NA		4.6E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	9.1E+01	mg/kg	3.1E-05	mg/kg-day	NA	NA	NA		1.1E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Lead	9.1E+01	mg/kg	1.8E-05	ug/m3	NA	NA	NA		6.4E-08	mg/m3	NA	mg/m3	NA
	DU 103	Resident (Adult)	Dermal	Lead	6.7E+01	mg/kg	9.7E-05	mg/kg-day	NA	NA	NA		3.4E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	6.7E+01	mg/kg	2.3E-05	mg/kg-day	NA	NA	NA		8.0E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Lead	6.7E+01	mg/kg	1.3E-05	ug/m3	NA	NA	NA		4.7E-08	mg/m3	NA	mg/m3	NA

TABLE 7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 105	Resident (Adult)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	1.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-08	3.7E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
		Resident (Adult)	Dermal	Lead	5.3E+01	mg/kg	7.6E-05	mg/kg-day	NA	NA	NA	2.7E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.4E-04
		Resident (Adult)	Ingestion	Lead	5.3E+01	mg/kg	1.8E-05	mg/kg-day	NA	NA	NA	6.3E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	3.3E-07	ug/m3	6.0E-04	1/(ug/m3)	2.0E-10	7.4E-10	mg/m3	2.0E-06	mg/m3	3.7E-04
		Resident (Adult)	Inhalation	Lead	5.3E+01	mg/kg	1.1E-05	ug/m3	NA	NA	NA	3.7E-08	mg/m3	NA	mg/m3	NA
	DU 115	Resident (Adult)	Dermal	Lead	8.7E+01	mg/kg	1.3E-04	mg/kg-day	NA	NA	NA	4.4E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	8.7E+01	mg/kg	3.0E-05	mg/kg-day	NA	NA	NA	1.0E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Lead	8.7E+01	mg/kg	1.8E-05	ug/m3	NA	NA	NA	6.1E-08	mg/m3	NA	mg/m3	NA
	DU 132	Resident (Adult)	Dermal	Benzo(a)pyrene	2.8E+00	mg/kg	4.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.3E-08	9.7E-08	mg/kg-day	3.0E-04	mg/kg-day	3.2E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	2.7E+00	mg/kg	6.6E-08	mg/kg-day	1.0E-01	1/mg/kg-day	6.6E-09	1.5E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.6E-09	mg/kg-day	1.0E+00	1/mg/kg-day	2.6E-09	5.9E-09	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	9.1E+01	mg/kg	1.3E-04	mg/kg-day	NA	NA	NA	4.6E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	2.8E+00	mg/kg	2.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.9E-07	6.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.2E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.8E-08	6.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	2.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.2E-08	4.9E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	9.1E+01	mg/kg	3.1E-05	mg/kg-day	NA	NA	NA	1.1E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	2.8E+00	mg/kg	8.6E-07	ug/m3	6.0E-04	1/(ug/m3)	5.2E-10	1.9E-09	mg/m3	2.0E-06	mg/m3	9.7E-04
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	2.7E+00	mg/kg	8.4E-07	ug/m3	6.0E-05	1/(ug/m3)	5.0E-11	1.9E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	6.4E-08	ug/m3	6.0E-04	1/(ug/m3)	3.8E-11	1.4E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	9.1E+01	mg/kg	1.8E-05	ug/m3	NA	NA	NA	6.4E-08	mg/m3	NA	mg/m3	NA
	DU 134	Resident (Adult)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	1.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-08	4.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	2.2E-01	mg/kg	2.8E-09	mg/kg-day	1.0E+00	1/mg/kg-day	2.8E-09	6.3E-09	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	3.1E+02	mg/kg	4.5E-04	mg/kg-day	NA	NA	NA	1.6E-03	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	1.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-07	2.9E-07	mg/kg-day	3.0E-04	mg/kg-day	9.5E-04
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	2.2E-01	mg/kg	2.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.3E-08	5.2E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	3.1E+02	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	3.7E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	3.7E-07	ug/m3	6.0E-04	1/(ug/m3)	2.2E-10	8.4E-10	mg/m3	2.0E-06	mg/m3	4.2E-04
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	2.2E-01	mg/kg	6.8E-08	ug/m3	6.0E-04	1/(ug/m3)	4.1E-11	1.5E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	3.1E+02	mg/kg	6.3E-05	ug/m3	NA	NA	NA	2.2E-07	mg/m3	NA	mg/m3	NA
	DU 140	Resident (Adult)	Dermal	Benzo(a)anthracene	2.3E+00	mg/kg	3.6E-08	mg/kg-day	1.0E-01	1/mg/kg-day	3.6E-09	8.2E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Benzo(a)pyrene	2.8E+00	mg/kg	4.4E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.4E-08	9.9E-08	mg/kg-day	3.0E-04	mg/kg-day	3.3E-04
		Resident (Adult)	Dermal	Benzo(b)fluoranthene	2.7E+00	mg/kg	6.6E-08	mg/kg-day	1.0E-01	1/mg/kg-day	6.6E-09	1.5E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Dibenzo(a,h)anthracene	4.6E-01	mg/kg	5.9E-09	mg/kg-day	1.0E+00	1/mg/kg-day	5.9E-09	1.3E-08	mg/kg-day	NA	NA	NA
		Resident (Adult)	Dermal	Lead	5.9E+01	mg/kg	8.5E-05	mg/kg-day	NA	NA	NA	3.0E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)anthracene	2.3E+00	mg/kg	2.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.8E-08	6.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	2.8E+00	mg/kg	3.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-07	6.7E-07	mg/kg-day	3.0E-04	mg/kg-day	2.2E-03
		Resident (Adult)	Ingestion	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.8E-08	6.4E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Dibenzo(a,h)anthracene	4.6E-01	mg/kg	4.9E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.9E-08	1.1E-07	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	5.9E+01	mg/kg	2.0E-05	mg/kg-day	NA	NA	NA	7.1E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)anthracene	2.3E+00	mg/kg	1.4E-04	ug/m3	6.0E-05	1/(ug/m3)	8.6E-09	3.2E-07	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	2.8E+00	mg/kg	8.8E-07	ug/m3	6.0E-04	1/(ug/m3)	5.3E-10	2.0E-09	mg/m3	2.0E-06	mg/m3	9.9E-04
		Resident (Adult)	Inhalation	Benzo(b)fluoranthene	2.7E+00	mg/kg	8.3E-07	ug/m3	6.0E-05	1/(ug/m3)	5.0E-11	1.9E-09	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Dibenzo(a,h)anthracene	4.6E-01	mg/kg	1.4E-07	ug/m3	6.0E-04	1/(ug/m3)	8.6E-11	3.2E-10	mg/m3	NA	mg/m3	NA
		Resident (Adult)	Inhalation	Lead	5.9E+01	mg/kg	1.2E-05	ug/m3	NA	NA	NA	4.1E-08	mg/m3	NA	mg/m3	NA

TABLE 7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RfD/RfC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 143	Resident (Adult)	Dermal	Benzo(a)pyrene	2.2E-01	mg/kg	3.4E-09	mg/kg-day	1.0E+00	1/mg/kg-day	3.4E-09	7.6E-09	mg/kg-day	3.0E-04	mg/kg-day	2.5E-05
		Resident (Adult)	Dermal	Lead	7.5E+01	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	3.8E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Benzo(a)pyrene	2.2E-01	mg/kg	2.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.3E-08	5.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.7E-04
		Resident (Adult)	Ingestion	Lead	7.5E+01	mg/kg	2.6E-05	mg/kg-day	NA	NA	NA	9.0E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Benzo(a)pyrene	2.2E-01	mg/kg	6.7E-08	ug/m3	6.0E-04	1/(ug/m3)	4.0E-11	1.5E-10	mg/m3	2.0E-06	mg/m3	7.6E-05
		Resident (Adult)	Inhalation	Lead	7.5E+01	mg/kg	1.5E-05	ug/m3	NA	NA	NA	5.3E-08	mg/m3	NA	mg/m3	NA
	DU 176	Resident (Adult)	Dermal	Lead	4.2E+01	mg/kg	6.1E-05	mg/kg-day	NA	NA	NA	2.1E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	4.2E+01	mg/kg	1.4E-05	mg/kg-day	NA	NA	NA	5.1E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Lead	4.2E+01	mg/kg	8.5E-06	ug/m3	NA	NA	NA	3.0E-08	mg/m3	NA	mg/m3	NA
	DU 190	Resident (Adult)	Dermal	Lead	7.7E+01	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	3.9E-04	mg/kg-day	NA	NA	NA
		Resident (Adult)	Ingestion	Lead	7.7E+01	mg/kg	2.6E-05	mg/kg-day	NA	NA	NA	9.2E-05	mg/kg-day	NA	NA	NA
		Resident (Adult)	Inhalation	Lead	7.7E+01	mg/kg	1.5E-05	ug/m3	NA	NA	NA	5.4E-08	mg/m3	NA	mg/m3	NA

Notes:

mg/kg = milligrams per kilogram.

mg/kg-day = milligrams per kilogram per day.

mg/m³ = milligrams per cubic meter.

ug/m³ = micrograms per cubic meter.

NA = not available or not applicable

TABLE 7.6.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decsion Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations					
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ	
							Value	Units	Value	Units		Value	Units	Value	Units		
Soil (0-12 ft)	DU 002-08	Resident (Child)	Dermal	Benzo(a)pyrene	7.5E-01	mg/kg	4.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.0E-08	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.3E-04	
		Resident (Child)	Ingestion	Benzo(a)pyrene	7.5E-01	mg/kg	4.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.8E-07	1.9E-06	mg/kg-day	3.0E-04	mg/kg-day	6.4E-03	
		Resident (Child)	Inhalation	Benzo(a)pyrene	7.5E-01	mg/kg	4.5E-08	ug/m3	6.0E-04	1/(ug/m3)	2.7E-11	1.8E-10	mg/m3	2.0E-06	mg/m3	8.9E-05	
	DU 009	Resident (Child)	Dermal	Benzo(a)pyrene	6.6E-01	mg/kg	3.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	3.5E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.6E-04	
		Resident (Child)	Dermal	Lead	2.7E+01	mg/kg	7.1E-05	mg/kg-day	NA	NA	NA	8.3E-04	mg/kg-day	NA	NA	NA	
		Resident (Child)	Ingestion	Benzo(a)pyrene	6.6E-01	mg/kg	4.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	4.2E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.6E-03	
		Resident (Child)	Ingestion	Lead	2.7E+01	mg/kg	3.0E-05	mg/kg-day	NA	NA	NA	3.5E-04	mg/kg-day	NA	NA	NA	
		Resident (Child)	Inhalation	Benzo(a)pyrene	6.6E-01	mg/kg	3.9E-08	ug/m3	6.0E-04	1/(ug/m3)	2.3E-11	1.5E-10	mg/m3	2.0E-06	mg/m3	7.7E-05	
		Resident (Child)	Inhalation	Lead	2.7E+01	mg/kg	5.5E-07	ug/m3	NA	NA	NA	6.4E-09	mg/m3	NA	mg/m3	NA	
	DU 010	Resident (Child)	Dermal	Benzo(a)pyrene	4.7E-01	mg/kg	2.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-08	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.4E-04	
		Resident (Child)	Ingestion	Benzo(a)pyrene	4.7E-01	mg/kg	3.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.0E-03	
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.7E-01	mg/kg	2.8E-08	ug/m3	6.0E-04	1/(ug/m3)	1.7E-11	1.1E-10	mg/m3	2.0E-06	mg/m3	5.6E-05	
	DU 010-03	Resident (Child)	Dermal	Benzo(a)anthracene	4.1E+00	mg/kg	2.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.2E-08	8.7E-07	mg/kg-day	NA	NA	NA	
		Resident (Child)	Dermal	Benzo(a)pyrene	5.1E+00	mg/kg	2.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.6E-03	
		Resident (Child)	Dermal	Benzo(b)fluoranthene	4.9E+00	mg/kg	4.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.1E-08	1.6E-06	mg/kg-day	NA	NA	NA	
		Resident (Child)	Dermal	Benzo(j)fluoranthene	2.7E+00	mg/kg	7.7E-08	mg/kg-day	1.0E-01	1/mg/kg-day	7.7E-09	8.9E-07	mg/kg-day	NA	NA	NA	
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	9.7E-01	mg/kg	4.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.2E-08	1.7E-07	mg/kg-day	NA	NA	NA	
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	3.4E+00	mg/kg	2.6E-08	mg/kg-day	1.0E-01	1/mg/kg-day	2.6E-09	1.0E-07	mg/kg-day	NA	NA	NA	
		Resident (Child)	Dermal	Lead	3.9E+01	mg/kg	1.0E-04	mg/kg-day	NA	NA	NA	1.2E-03	mg/kg-day	NA	NA	NA	
		Resident (Child)	Ingestion	Benzo(a)anthracene	4.1E+00	mg/kg	3.0E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.0E-07	1.2E-05	mg/kg-day	NA	NA	NA	
		Resident (Child)	Ingestion	Benzo(a)pyrene	5.1E+00	mg/kg	3.3E-06	mg/kg-day	1.0E+00	1/mg/kg-day	3.3E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.3E-02	
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	4.9E+00	mg/kg	3.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.1E-07	1.3E-05	mg/kg-day	NA	NA	NA	
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	2.7E+00	mg/kg	5.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.9E-08	6.9E-06	mg/kg-day	NA	NA	NA	
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	9.7E-01	mg/kg	6.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.2E-07	2.5E-06	mg/kg-day	NA	NA	NA	
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	3.4E+00	mg/kg	2.2E-06	mg/kg-day	1.0E-01	1/mg/kg-day	2.2E-07	8.8E-06	mg/kg-day	NA	NA	NA	
		Resident (Child)	Ingestion	Lead	3.9E+01	mg/kg	4.2E-05	mg/kg-day	NA	NA	NA	5.0E-04	mg/kg-day	NA	NA	NA	
		Resident (Child)	Inhalation	Benzo(a)anthracene	4.1E+00	mg/kg	4.8E-05	ug/m3	6.0E-05	1/(ug/m3)	2.9E-09	1.9E-07	mg/m3	NA	mg/m3	NA	
		Resident (Child)	Inhalation	Benzo(a)pyrene	5.1E+00	mg/kg	3.0E-07	ug/m3	6.0E-04	1/(ug/m3)	1.8E-10	1.2E-09	mg/m3	2.0E-06	mg/m3	6.0E-04	
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	4.9E+00	mg/kg	2.9E-07	ug/m3	6.0E-05	1/(ug/m3)	1.7E-11	1.2E-09	mg/m3	NA	mg/m3	NA	
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	2.7E+00	mg/kg	5.4E-08	ug/m3	6.0E-05	1/(ug/m3)	3.2E-12	6.3E-10	mg/m3	NA	mg/m3	NA	
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	9.7E-01	mg/kg	5.7E-08	ug/m3	6.0E-04	1/(ug/m3)	3.4E-11	2.3E-10	mg/m3	NA	mg/m3	NA	
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	3.4E+00	mg/kg	2.0E-07	ug/m3	6.0E-05	1/(ug/m3)	1.2E-11	8.1E-10	mg/m3	NA	mg/m3	NA	
		Resident (Child)	Inhalation	Lead	3.9E+01	mg/kg	7.8E-07	ug/m3	NA	NA	NA	9.1E-09	mg/m3	NA	mg/m3	NA	
		DU 010-04	Resident (Child)	Dermal	Benzo(a)anthracene	3.4E+01	mg/kg	1.8E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.8E-07	7.2E-06	mg/kg-day	NA	NA	NA
			Resident (Child)	Dermal	Benzo(a)pyrene	4.2E+01	mg/kg	2.2E-06	mg/kg-day	1.0E+00	1/mg/kg-day	2.2E-06	8.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
			Resident (Child)	Dermal	Benzo(b)fluoranthene	3.9E+01	mg/kg	3.3E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.3E-07	1.3E-05	mg/kg-day	NA	NA	NA
	Resident (Child)		Dermal	Benzo(j)fluoranthene	2.1E+01	mg/kg	5.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.9E-08	6.9E-06	mg/kg-day	NA	NA	NA	
	Resident (Child)		Dermal	Benzo(k)fluoranthene	2.0E+01	mg/kg	5.4E-07	mg/kg-day	1.0E-02	1/mg/kg-day	5.4E-09	2.1E-06	mg/kg-day	NA	NA	NA	
	Resident (Child)		Dermal	Dibenzo(a,h)anthracene	6.7E+00	mg/kg	2.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.9E-07	1.2E-06	mg/kg-day	NA	NA	NA	
	Resident (Child)		Dermal	Indeno(1,2,3-cd)pyrene	2.5E+01	mg/kg	1.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.9E-08	7.5E-07	mg/kg-day	NA	NA	NA	
	Resident (Child)		Dermal	Lead	9.7E+01	mg/kg	2.5E-04	mg/kg-day	NA	NA	NA	2.9E-03	mg/kg-day	NA	NA	NA	
	Resident (Child)		Ingestion	Benzo(a)anthracene	3.4E+01	mg/kg	2.5E-05	mg/kg-day	1.0E-01	1/mg/kg-day	2.5E-06	1.0E-04	mg/kg-day	NA	NA	NA	
	Resident (Child)		Ingestion	Benzo(a)pyrene	4.2E+01	mg/kg	2.7E-05	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-05	1.1E-04	mg/kg-day	3.0E-04	mg/kg-day	3.6E-01	
	Resident (Child)		Ingestion	Benzo(b)fluoranthene	3.9E+01	mg/kg	2.5E-05	mg/kg-day	1.0E-01	1/mg/kg-day	2.5E-06	1.0E-04	mg/kg-day	NA	NA	NA	
	Resident (Child)		Ingestion	Benzo(j)fluoranthene	2.1E+01	mg/kg	4.5E-06	mg/kg-day	1.0E-01	1/mg/kg-day	4.5E-07	5.3E-05	mg/kg-day	NA	NA	NA	
	Resident (Child)		Ingestion	Benzo(k)fluoranthene	2.0E+01	mg/kg	1.3E-05	mg/kg-day	1.0E-02	1/mg/kg-day	1.3E-07	5.1E-05	mg/kg-day	NA	NA	NA	
	Resident (Child)		Ingestion	Dibenzo(a,h)anthracene	6.7E+00	mg/kg	4.3E-06	mg/kg-day	1.0E+00	1/mg/kg-day	4.3E-06	1.7E-05	mg/kg-day	NA	NA	NA	
	Resident (Child)		Ingestion	Indeno(1,2,3-cd)pyrene	2.5E+01	mg/kg	1.6E-05	mg/kg-day	1.0E-01	1/mg/kg-day	1.6E-06	6.3E-05	mg/kg-day	NA	NA	NA	
	Resident (Child)		Ingestion	Lead	9.7E+01	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	1.2E-03	mg/kg-day	NA	NA	NA	

TABLE 7.6.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 010-04	Resident (Child)	Inhalation	Benzo(a)anthracene	3.4E+01	mg/kg	4.0E-04	ug/m3	6.0E-05	1/(ug/m3)	2.4E-08	1.6E-06	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.2E+01	mg/kg	2.5E-06	ug/m3	6.0E-04	1/(ug/m3)	1.5E-09	9.8E-09	mg/m3	2.0E-06	mg/m3	4.9E-03
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	3.9E+01	mg/kg	2.3E-06	ug/m3	6.0E-05	1/(ug/m3)	1.4E-10	9.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	2.1E+01	mg/kg	4.2E-07	ug/m3	6.0E-05	1/(ug/m3)	2.5E-11	4.9E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(k)fluoranthene	2.0E+01	mg/kg	1.2E-06	ug/m3	6.0E-06	1/(ug/m3)	7.1E-12	4.7E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	6.7E+00	mg/kg	4.0E-07	ug/m3	6.0E-04	1/(ug/m3)	2.4E-10	1.6E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	2.5E+01	mg/kg	1.5E-06	ug/m3	6.0E-05	1/(ug/m3)	8.8E-11	5.8E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	9.7E+01	mg/kg	2.0E-06	ug/m3	NA	NA	NA	2.3E-08	mg/m3	NA	mg/m3	NA
	DU 010-06	Resident (Child)	Dermal	Benzo(a)anthracene	1.4E+01	mg/kg	7.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	7.3E-08	2.9E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	1.7E+01	mg/kg	9.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	9.0E-07	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
		Resident (Child)	Dermal	Benzo(b)fluoranthene	1.6E+01	mg/kg	1.3E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.3E-07	5.4E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	8.4E+00	mg/kg	2.4E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.4E-08	2.8E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	1.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-07	4.9E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	7.8E-08	mg/kg-day	1.0E-01	1/mg/kg-day	7.8E-09	3.1E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	1.3E+02	mg/kg	3.3E-04	mg/kg-day	NA	NA	NA	3.9E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	1.4E+01	mg/kg	1.0E-05	mg/kg-day	1.0E-01	1/mg/kg-day	1.0E-06	4.0E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.7E+01	mg/kg	1.1E-05	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-05	4.3E-05	mg/kg-day	3.0E-04	mg/kg-day	1.4E-01
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	1.6E+01	mg/kg	1.0E-05	mg/kg-day	1.0E-01	1/mg/kg-day	1.0E-06	4.1E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	8.4E+00	mg/kg	1.8E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.8E-07	2.1E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	1.8E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.8E-06	7.3E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	6.6E-06	mg/kg-day	1.0E-01	1/mg/kg-day	6.6E-07	2.6E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	1.3E+02	mg/kg	1.4E-04	mg/kg-day	NA	NA	NA	1.6E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	1.4E+01	mg/kg	1.6E-04	ug/m3	6.0E-05	1/(ug/m3)	9.6E-09	6.4E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.7E+01	mg/kg	1.0E-06	ug/m3	6.0E-04	1/(ug/m3)	6.0E-10	4.0E-09	mg/m3	2.0E-06	mg/m3	2.0E-03
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	1.6E+01	mg/kg	9.5E-07	ug/m3	6.0E-05	1/(ug/m3)	5.7E-11	3.8E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	8.4E+00	mg/kg	1.7E-07	ug/m3	6.0E-05	1/(ug/m3)	1.0E-11	2.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.8E+00	mg/kg	1.7E-07	ug/m3	6.0E-04	1/(ug/m3)	1.0E-10	6.7E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	1.0E+01	mg/kg	6.1E-07	ug/m3	6.0E-05	1/(ug/m3)	3.6E-11	2.4E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	1.3E+02	mg/kg	2.6E-06	ug/m3	NA	NA	NA	3.0E-08	mg/m3	NA	mg/m3	NA
	DU 016	Resident (Child)	Dermal	Benzo(a)anthracene	1.5E+00	mg/kg	7.8E-08	mg/kg-day	1.0E-01	1/mg/kg-day	7.8E-09	3.1E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	1.5E+00	mg/kg	8.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.1E-08	3.2E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	9.2E-09	mg/kg-day	1.0E+00	1/mg/kg-day	9.2E-09	3.7E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	1.5E+00	mg/kg	1.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-07	4.3E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.5E+00	mg/kg	9.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	9.8E-07	3.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.3E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	1.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-07	5.4E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	1.5E+00	mg/kg	1.7E-05	ug/m3	6.0E-05	1/(ug/m3)	1.0E-09	6.8E-08	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.5E+00	mg/kg	9.0E-08	ug/m3	6.0E-04	1/(ug/m3)	5.4E-11	3.6E-10	mg/m3	2.0E-06	mg/m3	1.8E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	1.3E-08	ug/m3	6.0E-04	1/(ug/m3)	7.5E-12	5.0E-11	mg/m3	NA	mg/m3	NA
	DU 019-01	Resident (Child)	Dermal	Benzo(a)pyrene	5.1E-01	mg/kg	2.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.7E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.6E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	5.1E-01	mg/kg	3.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.3E-07	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.4E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	5.1E-01	mg/kg	3.0E-08	ug/m3	6.0E-04	1/(ug/m3)	1.8E-11	1.2E-10	mg/m3	2.0E-06	mg/m3	6.0E-05
	DU 038	Resident (Child)	Dermal	Benzo(a)anthracene	2.0E+00	mg/kg	1.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-08	4.3E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	2.1E+00	mg/kg	1.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-07	4.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.5E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.5E-08	6.1E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	1.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-08	4.2E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	4.2E+01	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	1.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	2.0E+00	mg/kg	1.5E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.5E-07	6.0E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	2.1E+00	mg/kg	1.3E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-06	5.3E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.2E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.2E-07	4.6E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	1.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-07	6.1E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	4.2E+01	mg/kg	4.6E-05	mg/kg-day	NA	NA	NA	5.3E-04	mg/kg-day	NA	NA	NA

TABLE 7.6.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 038	Resident (Child)	Inhalation	Benzo(a)anthracene	2.0E+00	mg/kg	2.4E-05	ug/m3	6.0E-05	1/(ug/m3)	1.4E-09	9.5E-08	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	2.1E+00	mg/kg	1.2E-07	ug/m3	6.0E-04	1/(ug/m3)	7.4E-11	4.9E-10	mg/m3	2.0E-06	mg/m3	2.4E-04
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.1E-07	ug/m3	6.0E-05	1/(ug/m3)	6.4E-12	4.3E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.4E-01	mg/kg	1.4E-08	ug/m3	6.0E-04	1/(ug/m3)	8.5E-12	5.6E-11	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	4.2E+01	mg/kg	8.4E-07	ug/m3	NA	NA	NA	9.8E-09	mg/m3	NA	mg/m3	NA
	DU 040	Resident (Child)	Dermal	Benzo(a)anthracene	5.3E+00	mg/kg	2.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.8E-08	1.1E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	5.5E+00	mg/kg	2.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	2.9E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	5.1E+00	mg/kg	4.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.3E-08	1.7E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	2.8E+00	mg/kg	8.1E-08	mg/kg-day	1.0E-01	1/mg/kg-day	8.1E-09	9.4E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	5.4E-01	mg/kg	2.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.3E-08	9.3E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	3.2E+00	mg/kg	2.4E-08	mg/kg-day	1.0E-01	1/mg/kg-day	2.4E-09	9.7E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	3.5E+01	mg/kg	9.1E-05	mg/kg-day	NA	NA	NA	1.1E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	5.3E+00	mg/kg	3.9E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.9E-07	1.6E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	5.5E+00	mg/kg	3.5E-06	mg/kg-day	1.0E+00	1/mg/kg-day	3.5E-06	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.7E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	5.1E+00	mg/kg	3.3E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.3E-07	1.3E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	2.8E+00	mg/kg	6.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.2E-08	7.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	5.4E-01	mg/kg	3.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.5E-07	1.4E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	3.2E+00	mg/kg	2.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	2.1E-07	8.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	3.5E+01	mg/kg	3.8E-05	mg/kg-day	NA	NA	NA	4.5E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	5.3E+00	mg/kg	6.2E-05	ug/m3	6.0E-05	1/(ug/m3)	3.7E-09	2.5E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	5.5E+00	mg/kg	3.3E-07	ug/m3	6.0E-04	1/(ug/m3)	2.0E-10	1.3E-09	mg/m3	2.0E-06	mg/m3	6.5E-04
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	5.1E+00	mg/kg	3.0E-07	ug/m3	6.0E-05	1/(ug/m3)	1.8E-11	1.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	2.8E+00	mg/kg	5.7E-08	ug/m3	6.0E-05	1/(ug/m3)	3.4E-12	6.6E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	5.4E-01	mg/kg	3.2E-08	ug/m3	6.0E-04	1/(ug/m3)	1.9E-11	1.3E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	3.2E+00	mg/kg	1.9E-07	ug/m3	6.0E-05	1/(ug/m3)	1.1E-11	7.5E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	3.5E+01	mg/kg	7.1E-07	ug/m3	NA	NA	NA	8.2E-09	mg/m3	NA	mg/m3	NA
	DU 044	Resident (Child)	Dermal	Benzo(a)anthracene	8.0E+00	mg/kg	4.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	4.3E-08	1.7E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	9.8E+00	mg/kg	5.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.2E-07	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	6.9E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	9.1E+00	mg/kg	7.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	7.7E-08	3.1E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	3.2E+00	mg/kg	9.2E-08	mg/kg-day	1.0E-01	1/mg/kg-day	9.2E-09	1.1E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	4.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.6E-08	1.8E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	5.9E+00	mg/kg	4.5E-08	mg/kg-day	1.0E-01	1/mg/kg-day	4.5E-09	1.8E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	8.7E+01	mg/kg	2.3E-04	mg/kg-day	NA	NA	NA	2.6E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	8.0E+00	mg/kg	5.9E-06	mg/kg-day	1.0E-01	1/mg/kg-day	5.9E-07	2.4E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	9.8E+00	mg/kg	6.3E-06	mg/kg-day	1.0E+00	1/mg/kg-day	6.3E-06	2.5E-05	mg/kg-day	3.0E-04	mg/kg-day	8.3E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	9.1E+00	mg/kg	5.9E-06	mg/kg-day	1.0E-01	1/mg/kg-day	5.9E-07	2.3E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	3.2E+00	mg/kg	7.1E-07	mg/kg-day	1.0E-01	1/mg/kg-day	7.1E-08	8.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	6.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.8E-07	2.7E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	5.9E+00	mg/kg	3.8E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.8E-07	1.5E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	8.7E+01	mg/kg	9.5E-05	mg/kg-day	NA	NA	NA	1.1E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	8.0E+00	mg/kg	9.4E-05	ug/m3	6.0E-05	1/(ug/m3)	5.6E-09	3.7E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	9.8E+00	mg/kg	5.8E-07	ug/m3	6.0E-04	1/(ug/m3)	3.5E-10	2.3E-09	mg/m3	2.0E-06	mg/m3	1.1E-03
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	9.1E+00	mg/kg	5.4E-07	ug/m3	6.0E-05	1/(ug/m3)	3.2E-11	2.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	3.2E+00	mg/kg	6.5E-08	ug/m3	6.0E-05	1/(ug/m3)	3.9E-12	7.6E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	1.1E+00	mg/kg	6.3E-08	ug/m3	6.0E-04	1/(ug/m3)	3.8E-11	2.5E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	5.9E+00	mg/kg	3.5E-07	ug/m3	6.0E-05	1/(ug/m3)	2.1E-11	1.4E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	8.7E+01	mg/kg	1.8E-06	ug/m3	NA	NA	NA	2.0E-08	mg/m3	NA	mg/m3	NA
	DU 046	Resident (Child)	Dermal	Benzo(a)pyrene	8.4E-01	mg/kg	4.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.5E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	5.9E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	8.4E-01	mg/kg	5.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.4E-07	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	7.2E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	8.4E-01	mg/kg	5.0E-08	ug/m3	6.0E-04	1/(ug/m3)	3.0E-11	2.0E-10	mg/m3	2.0E-06	mg/m3	9.9E-05

TABLE 7.6.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 050	Resident (Child)	Dermal	Benzo(a)anthracene	1.1E+01	mg/kg	5.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.8E-08	2.3E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	1.4E+01	mg/kg	7.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.3E-07	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.6E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	1.3E+01	mg/kg	1.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.1E-07	4.3E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.8E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.8E-08	2.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.3E+00	mg/kg	9.8E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.8E-08	3.9E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	8.5E+00	mg/kg	6.5E-08	mg/kg-day	1.0E-01	1/mg/kg-day	6.5E-09	2.6E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	8.0E+01	mg/kg	2.1E-04	mg/kg-day	NA	NA	NA	2.4E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	1.1E+01	mg/kg	8.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	8.1E-07	3.2E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.4E+01	mg/kg	8.8E-06	mg/kg-day	1.0E+00	1/mg/kg-day	8.8E-06	3.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	1.3E+01	mg/kg	8.2E-06	mg/kg-day	1.0E-01	1/mg/kg-day	8.2E-07	3.3E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.4E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.4E-07	1.7E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.3E+00	mg/kg	1.5E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-06	5.8E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	8.5E+00	mg/kg	5.5E-06	mg/kg-day	1.0E-01	1/mg/kg-day	5.5E-07	2.2E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	8.0E+01	mg/kg	8.8E-05	mg/kg-day	NA	NA	NA	1.0E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	1.1E+01	mg/kg	1.3E-04	ug/m3	6.0E-05	1/(ug/m3)	7.7E-09	5.1E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.4E+01	mg/kg	8.0E-07	ug/m3	6.0E-04	1/(ug/m3)	4.8E-10	3.2E-09	mg/m3	2.0E-06	mg/m3	1.6E-03
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	1.3E+01	mg/kg	7.5E-07	ug/m3	6.0E-05	1/(ug/m3)	4.5E-11	3.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	6.5E+00	mg/kg	1.3E-07	ug/m3	6.0E-05	1/(ug/m3)	7.8E-12	1.5E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.3E+00	mg/kg	1.3E-07	ug/m3	6.0E-04	1/(ug/m3)	8.0E-11	5.3E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	8.5E+00	mg/kg	5.0E-07	ug/m3	6.0E-05	1/(ug/m3)	3.0E-11	2.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	8.0E+01	mg/kg	1.6E-06	ug/m3	NA	NA	NA	1.9E-08	mg/m3	NA	mg/m3	NA
	DU 053	Resident (Child)	Dermal	Benzo(a)pyrene	1.6E+00	mg/kg	8.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	8.6E-08	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	3.0E-01	mg/kg	1.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-08	5.1E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.6E+00	mg/kg	1.0E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-06	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	3.0E-01	mg/kg	1.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-07	7.6E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.6E+00	mg/kg	9.5E-08	ug/m3	6.0E-04	1/(ug/m3)	5.7E-11	3.8E-10	mg/m3	2.0E-06	mg/m3	1.9E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	3.0E-01	mg/kg	1.8E-08	ug/m3	6.0E-04	1/(ug/m3)	1.1E-11	7.0E-11	mg/m3	NA	mg/m3	NA
	DU 056	Resident (Child)	Dermal	Benzo(a)pyrene	7.8E-01	mg/kg	4.2E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.2E-08	1.7E-07	mg/kg-day	3.0E-04	mg/kg-day	5.5E-04
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	6.4E-09	mg/kg-day	1.0E+00	1/mg/kg-day	6.4E-09	2.6E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	4.8E+01	mg/kg	1.3E-04	mg/kg-day	NA	NA	NA	1.5E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	7.8E-01	mg/kg	5.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.0E-07	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.6E-03
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	9.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.5E-08	3.8E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	4.8E+01	mg/kg	5.3E-05	mg/kg-day	NA	NA	NA	6.2E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	7.8E-01	mg/kg	4.6E-08	ug/m3	6.0E-04	1/(ug/m3)	2.8E-11	1.8E-10	mg/m3	2.0E-06	mg/m3	9.2E-05
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	1.5E-01	mg/kg	8.7E-09	ug/m3	6.0E-04	1/(ug/m3)	5.2E-12	3.5E-11	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	4.8E+01	mg/kg	9.7E-07	ug/m3	NA	NA	NA	1.1E-08	mg/m3	NA	mg/m3	NA
	DU 058	Resident (Child)	Dermal	Lead	6.9E+01	mg/kg	1.8E-04	mg/kg-day	NA	NA	NA	2.1E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	6.9E+01	mg/kg	7.6E-05	mg/kg-day	NA	NA	NA	8.8E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Lead	6.9E+01	mg/kg	1.4E-06	ug/m3	NA	NA	NA	1.6E-08	mg/m3	NA	mg/m3	NA
	DU 063	Resident (Child)	Dermal	Lead	4.0E+01	mg/kg	1.0E-04	mg/kg-day	NA	NA	NA	1.2E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	4.0E+01	mg/kg	4.4E-05	mg/kg-day	NA	NA	NA	5.1E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Lead	4.0E+01	mg/kg	8.0E-07	ug/m3	NA	NA	NA	9.3E-09	mg/m3	NA	mg/m3	NA
	DU 064	Resident (Child)	Dermal	Benzo(a)anthracene	3.1E+00	mg/kg	1.7E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-08	6.6E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	7.0E+00	mg/kg	3.7E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.7E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	6.2E+00	mg/kg	5.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	5.2E-08	2.1E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	3.3E+00	mg/kg	9.5E-08	mg/kg-day	1.0E-01	1/mg/kg-day	9.5E-09	1.1E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	1.2E+00	mg/kg	5.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.1E-08	2.0E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	4.5E+00	mg/kg	3.4E-08	mg/kg-day	1.0E-01	1/mg/kg-day	3.4E-09	1.4E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	1.1E+02	mg/kg	2.9E-04	mg/kg-day	NA	NA	NA	3.3E-03	mg/kg-day	NA	NA	NA

TABLE 7.6.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 064	Resident (Child)	Ingestion	Benzo(a)anthracene	3.1E+00	mg/kg	2.3E-06	mg/kg-day	1.0E-01	1/mg/kg-day	2.3E-07	9.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	7.0E+00	mg/kg	4.5E-06	mg/kg-day	1.0E+00	1/mg/kg-day	4.5E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.0E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	6.2E+00	mg/kg	4.0E-06	mg/kg-day	1.0E-01	1/mg/kg-day	4.0E-07	1.6E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	3.3E+00	mg/kg	7.3E-07	mg/kg-day	1.0E-01	1/mg/kg-day	7.3E-08	8.5E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	1.2E+00	mg/kg	7.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.6E-07	3.0E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	4.5E+00	mg/kg	2.9E-06	mg/kg-day	1.0E-01	1/mg/kg-day	2.9E-07	1.2E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	1.1E+02	mg/kg	1.2E-04	mg/kg-day	NA	NA	NA	1.4E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	3.1E+00	mg/kg	3.7E-05	ug/m3	6.0E-05	1/(ug/m3)	2.2E-09	1.5E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	7.0E+00	mg/kg	4.1E-07	ug/m3	6.0E-04	1/(ug/m3)	2.5E-10	1.6E-09	mg/m3	2.0E-06	mg/m3	8.2E-04
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	6.2E+00	mg/kg	3.6E-07	ug/m3	6.0E-05	1/(ug/m3)	2.2E-11	1.4E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	3.3E+00	mg/kg	6.7E-08	ug/m3	6.0E-05	1/(ug/m3)	4.0E-12	7.8E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	1.2E+00	mg/kg	7.0E-08	ug/m3	6.0E-04	1/(ug/m3)	4.2E-11	2.8E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	4.5E+00	mg/kg	2.7E-07	ug/m3	6.0E-05	1/(ug/m3)	1.6E-11	1.1E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	1.1E+02	mg/kg	2.2E-06	ug/m3	NA	NA	NA	2.6E-08	mg/m3	NA	mg/m3	NA
	DU 066	Resident (Child)	Dermal	Benzo(a)pyrene	2.9E-01	mg/kg	1.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.6E-08	6.2E-08	mg/kg-day	3.0E-04	mg/kg-day	2.1E-04
		Resident (Child)	Dermal	Lead	5.9E+01	mg/kg	1.5E-04	mg/kg-day	NA	NA	NA	1.8E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	2.9E-01	mg/kg	1.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.9E-07	7.5E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
		Resident (Child)	Ingestion	Lead	5.9E+01	mg/kg	6.5E-05	mg/kg-day	NA	NA	NA	7.5E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	2.9E-01	mg/kg	1.7E-08	ug/m3	6.0E-04	1/(ug/m3)	1.0E-11	6.9E-11	mg/m3	2.0E-06	mg/m3	3.5E-05
		Resident (Child)	Inhalation	Lead	5.9E+01	mg/kg	1.2E-06	ug/m3	NA	NA	NA	1.4E-08	mg/m3	NA	mg/m3	NA
	DU 074	Resident (Child)	Dermal	Benzo(a)anthracene	3.9E+01	mg/kg	2.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	2.1E-07	8.3E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	4.7E+01	mg/kg	2.5E-06	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-06	9.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.3E-02
		Resident (Child)	Dermal	Benzo(b)fluoranthene	4.3E+01	mg/kg	3.6E-06	mg/kg-day	1.0E-01	1/mg/kg-day	3.6E-07	1.4E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(j)fluoranthene	2.3E+01	mg/kg	6.6E-07	mg/kg-day	1.0E-01	1/mg/kg-day	6.6E-08	7.7E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(k)fluoranthene	2.2E+01	mg/kg	6.0E-07	mg/kg-day	1.0E-02	1/mg/kg-day	6.0E-09	2.4E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	7.2E+00	mg/kg	3.1E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.1E-07	1.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Indeno(1,2,3-cd)pyrene	2.6E+01	mg/kg	1.9E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.9E-08	7.7E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	1.3E+02	mg/kg	3.3E-04	mg/kg-day	NA	NA	NA	3.8E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	3.9E+01	mg/kg	2.9E-05	mg/kg-day	1.0E-01	1/mg/kg-day	2.9E-06	1.1E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	4.7E+01	mg/kg	3.0E-05	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-05	1.2E-04	mg/kg-day	3.0E-04	mg/kg-day	4.0E-01
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	4.3E+01	mg/kg	2.7E-05	mg/kg-day	1.0E-01	1/mg/kg-day	2.7E-06	1.1E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(j)fluoranthene	2.3E+01	mg/kg	5.1E-06	mg/kg-day	1.0E-01	1/mg/kg-day	5.1E-07	5.9E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(k)fluoranthene	2.2E+01	mg/kg	1.4E-05	mg/kg-day	1.0E-02	1/mg/kg-day	1.4E-07	5.7E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	7.2E+00	mg/kg	4.6E-06	mg/kg-day	1.0E+00	1/mg/kg-day	4.6E-06	1.8E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Indeno(1,2,3-cd)pyrene	2.6E+01	mg/kg	1.6E-05	mg/kg-day	1.0E-01	1/mg/kg-day	1.6E-06	6.5E-05	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	1.3E+02	mg/kg	1.4E-04	mg/kg-day	NA	NA	NA	1.6E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	3.9E+01	mg/kg	4.6E-04	ug/m3	6.0E-05	1/(ug/m3)	2.7E-08	1.8E-06	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.7E+01	mg/kg	2.8E-06	ug/m3	6.0E-04	1/(ug/m3)	1.7E-09	1.1E-08	mg/m3	2.0E-06	mg/m3	5.5E-03
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	4.3E+01	mg/kg	2.5E-06	ug/m3	6.0E-05	1/(ug/m3)	1.5E-10	1.0E-08	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(j)fluoranthene	2.3E+01	mg/kg	4.6E-07	ug/m3	6.0E-05	1/(ug/m3)	2.8E-11	5.4E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(k)fluoranthene	2.2E+01	mg/kg	1.3E-06	ug/m3	6.0E-06	1/(ug/m3)	7.9E-12	5.2E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	7.2E+00	mg/kg	4.2E-07	ug/m3	6.0E-04	1/(ug/m3)	2.5E-10	1.7E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Indeno(1,2,3-cd)pyrene	2.6E+01	mg/kg	1.5E-06	ug/m3	6.0E-05	1/(ug/m3)	9.0E-11	6.0E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	1.3E+02	mg/kg	2.5E-06	ug/m3	NA	NA	NA	2.9E-08	mg/m3	NA	mg/m3	NA
	DU 077	Resident (Child)	Dermal	Benzo(a)pyrene	7.7E-01	mg/kg	4.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	4.1E-08	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.5E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	7.7E-01	mg/kg	5.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	5.0E-07	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.6E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	7.7E-01	mg/kg	4.6E-08	ug/m3	6.0E-04	1/(ug/m3)	2.7E-11	1.8E-10	mg/m3	2.0E-06	mg/m3	9.1E-05

TABLE 7.6.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 080	Resident (Child)	Dermal	Benzo(a)pyrene	1.8E+00	mg/kg	9.8E-08	mg/kg-day	1.0E+00	1/mg/kg-day	9.8E-08	3.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	4.9E-01	mg/kg	2.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.1E-08	8.5E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	4.3E+01	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	1.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.8E+00	mg/kg	1.2E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-06	4.7E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	4.9E-01	mg/kg	3.2E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.2E-07	1.3E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	4.3E+01	mg/kg	4.8E-05	mg/kg-day	NA	NA	NA	5.6E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.8E+00	mg/kg	1.1E-07	ug/m3	6.0E-04	1/(ug/m3)	6.5E-11	4.3E-10	mg/m3	2.0E-06	mg/m3	2.2E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	4.9E-01	mg/kg	2.9E-08	ug/m3	6.0E-04	1/(ug/m3)	1.7E-11	1.2E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	4.3E+01	mg/kg	8.8E-07	ug/m3	NA	NA	NA	1.0E-08	mg/m3	NA	mg/m3	NA
	DU 082	Resident (Child)	Dermal	Benzo(a)pyrene	1.9E+00	mg/kg	1.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.0E-07	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	8.9E-09	mg/kg-day	1.0E+00	1/mg/kg-day	8.9E-09	3.5E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.9E+00	mg/kg	1.2E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.2E-06	4.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	1.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-07	5.2E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.9E+00	mg/kg	1.1E-07	ug/m3	6.0E-04	1/(ug/m3)	6.8E-11	4.5E-10	mg/m3	2.0E-06	mg/m3	2.2E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.1E-01	mg/kg	1.2E-08	ug/m3	6.0E-04	1/(ug/m3)	7.3E-12	4.8E-11	mg/m3	NA	mg/m3	NA
	DU 083	Resident (Child)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	5.8E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.8E-08	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.8E-04
		Resident (Child)	Dermal	Lead	4.2E+01	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	1.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	7.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.0E-07	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.3E-03
		Resident (Child)	Ingestion	Lead	4.2E+01	mg/kg	4.6E-05	mg/kg-day	NA	NA	NA	5.4E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	6.5E-08	ug/m3	6.0E-04	1/(ug/m3)	3.9E-11	2.6E-10	mg/m3	2.0E-06	mg/m3	1.3E-04
		Resident (Child)	Inhalation	Lead	4.2E+01	mg/kg	8.5E-07	ug/m3	NA	NA	NA	9.9E-09	mg/m3	NA	mg/m3	NA
	DU 084	Resident (Child)	Dermal	Benzo(a)pyrene	4.6E-01	mg/kg	2.5E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.5E-08	9.8E-08	mg/kg-day	3.0E-04	mg/kg-day	3.3E-04
		Resident (Child)	Dermal	Lead	4.5E+01	mg/kg	1.2E-04	mg/kg-day	NA	NA	NA	1.4E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	4.6E-01	mg/kg	3.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
		Resident (Child)	Ingestion	Lead	4.5E+01	mg/kg	4.9E-05	mg/kg-day	NA	NA	NA	5.7E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	4.6E-01	mg/kg	2.7E-08	ug/m3	6.0E-04	1/(ug/m3)	1.6E-11	1.1E-10	mg/m3	2.0E-06	mg/m3	5.4E-05
		Resident (Child)	Inhalation	Lead	4.5E+01	mg/kg	9.0E-07	ug/m3	NA	NA	NA	1.1E-08	mg/m3	NA	mg/m3	NA
	DU 087	Resident (Child)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	5.7E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.7E-08	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.6E-04
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	6.9E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.9E-07	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.1E-03
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	6.3E-08	ug/m3	6.0E-04	1/(ug/m3)	3.8E-11	2.5E-10	mg/m3	2.0E-06	mg/m3	1.3E-04
	DU 095	Resident (Child)	Dermal	Lead	9.1E+01	mg/kg	2.4E-04	mg/kg-day	NA	NA	NA	2.8E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	9.1E+01	mg/kg	1.0E-04	mg/kg-day	NA	NA	NA	1.2E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Lead	9.1E+01	mg/kg	1.8E-06	ug/m3	NA	NA	NA	2.1E-08	mg/m3	NA	mg/m3	NA
	DU 103	Resident (Child)	Dermal	Lead	6.7E+01	mg/kg	1.7E-04	mg/kg-day	NA	NA	NA	2.0E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	6.7E+01	mg/kg	7.3E-05	mg/kg-day	NA	NA	NA	8.6E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Lead	6.7E+01	mg/kg	1.3E-06	ug/m3	NA	NA	NA	1.6E-08	mg/m3	NA	mg/m3	NA
	DU 105	Resident (Child)	Dermal	Benzo(a)pyrene	1.1E+00	mg/kg	5.6E-08	mg/kg-day	1.0E+00	1/mg/kg-day	5.8E-08	2.2E-07	mg/kg-day	3.0E-04	mg/kg-day	7.4E-04
		Resident (Child)	Dermal	Lead	5.3E+01	mg/kg	1.4E-04	mg/kg-day	NA	NA	NA	1.6E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.1E+00	mg/kg	6.8E-07	mg/kg-day	1.0E+00	1/mg/kg-day	6.8E-07	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	8.9E-03
		Resident (Child)	Ingestion	Lead	5.3E+01	mg/kg	5.8E-05	mg/kg-day	NA	NA	NA	6.7E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.1E+00	mg/kg	6.2E-08	ug/m3	6.0E-04	1/(ug/m3)	3.7E-11	2.5E-10	mg/m3	2.0E-06	mg/m3	1.2E-04
		Resident (Child)	Inhalation	Lead	5.3E+01	mg/kg	1.1E-06	ug/m3	NA	NA	NA	1.2E-08	mg/m3	NA	mg/m3	NA
	DU 115	Resident (Child)	Dermal	Lead	8.7E+01	mg/kg	2.3E-04	mg/kg-day	NA	NA	NA	2.6E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	8.7E+01	mg/kg	9.5E-05	mg/kg-day	NA	NA	NA	1.1E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Lead	8.7E+01	mg/kg	1.8E-06	ug/m3	NA	NA	NA	2.0E-08	mg/m3	NA	mg/m3	NA
	DU 132	Resident (Child)	Dermal	Benzo(a)pyrene	2.8E+00	mg/kg	1.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-07	5.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	2.2E+00	mg/kg	2.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.2E-08	8.9E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	8.9E-09	mg/kg-day	1.0E+00	1/mg/kg-day	8.9E-09	3.5E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	9.1E+01	mg/kg	2.4E-04	mg/kg-day	NA	NA	NA	2.8E-03	mg/kg-day	NA	NA	NA

TABLE 7.6.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Exposure Route	Chemical of Potential Concern	EPC		Potential Excess Lifetime Cancer Risk (ELCR) Calculations					Potential Non-Cancer Hazard Quotient (HQ) Calculations				
					Value	Units	Intake/Exposure Concentration		CSF/Unit Risk		Potential ELCR	Intake/Exposure Concentration		RID/RIC		Potential HQ
							Value	Units	Value	Units		Value	Units	Value	Units	
Soil (0-12 ft)	DU 132	Resident (Child)	Ingestion	Benzo(a)pyrene	2.8E+00	mg/kg	1.8E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.8E-06	7.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	2.7E+00	mg/kg	1.7E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-07	6.8E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	1.3E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.3E-07	5.2E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	9.1E+01	mg/kg	9.9E-05	mg/kg-day	NA	NA	NA	1.2E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	2.8E+00	mg/kg	1.6E-07	ug/m3	6.0E-04	1/(ug/m3)	9.8E-11	6.5E-10	mg/m3	2.0E-06	mg/m3	3.2E-04
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	2.7E+00	mg/kg	1.6E-07	ug/m3	6.0E-05	1/(ug/m3)	9.5E-12	6.3E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.0E-01	mg/kg	1.2E-08	ug/m3	6.0E-04	1/(ug/m3)	7.2E-12	4.8E-11	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	9.1E+01	mg/kg	1.8E-06	ug/m3	NA	NA	NA	2.1E-08	mg/m3	NA	mg/m3	NA
	DU 134	Resident (Child)	Dermal	Benzo(a)pyrene	1.2E+00	mg/kg	6.3E-08	mg/kg-day	1.0E+00	1/mg/kg-day	6.3E-08	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.4E-04
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	2.2E-01	mg/kg	9.4E-09	mg/kg-day	1.0E+00	1/mg/kg-day	9.4E-09	3.8E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	3.1E+02	mg/kg	8.1E-04	mg/kg-day	NA	NA	NA	9.4E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	1.2E+00	mg/kg	7.6E-07	mg/kg-day	1.0E+00	1/mg/kg-day	7.6E-07	3.0E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	2.2E-01	mg/kg	1.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-07	5.5E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	3.1E+02	mg/kg	3.4E-04	mg/kg-day	NA	NA	NA	4.0E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	1.2E+00	mg/kg	7.0E-08	ug/m3	6.0E-04	1/(ug/m3)	4.2E-11	2.8E-10	mg/m3	2.0E-06	mg/m3	1.4E-04
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	2.2E-01	mg/kg	1.3E-08	ug/m3	6.0E-04	1/(ug/m3)	7.7E-12	5.1E-11	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	3.1E+02	mg/kg	6.3E-06	ug/m3	NA	NA	NA	7.3E-08	mg/m3	NA	mg/m3	NA
	DU 140	Resident (Child)	Dermal	Benzo(a)anthracene	2.3E+00	mg/kg	1.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	1.2E-08	4.9E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Benzo(a)pyrene	2.8E+00	mg/kg	1.5E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.5E-07	6.0E-07	mg/kg-day	3.0E-04	mg/kg-day	2.0E-03
		Resident (Child)	Dermal	Benzo(b)fluoranthene	2.7E+00	mg/kg	2.2E-07	mg/kg-day	1.0E-01	1/mg/kg-day	2.2E-08	8.9E-07	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Dibenzo(a,h)anthracene	4.6E-01	mg/kg	2.0E-08	mg/kg-day	1.0E+00	1/mg/kg-day	2.0E-08	7.9E-08	mg/kg-day	NA	NA	NA
		Resident (Child)	Dermal	Lead	5.9E+01	mg/kg	1.5E-04	mg/kg-day	NA	NA	NA	1.8E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)anthracene	2.3E+00	mg/kg	1.7E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-07	6.8E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	2.8E+00	mg/kg	1.8E-06	mg/kg-day	1.0E+00	1/mg/kg-day	1.8E-06	7.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
		Resident (Child)	Ingestion	Benzo(b)fluoranthene	2.7E+00	mg/kg	1.7E-06	mg/kg-day	1.0E-01	1/mg/kg-day	1.7E-07	6.8E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Dibenzo(a,h)anthracene	4.6E-01	mg/kg	3.0E-07	mg/kg-day	1.0E+00	1/mg/kg-day	3.0E-07	1.2E-06	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	5.9E+01	mg/kg	6.4E-05	mg/kg-day	NA	NA	NA	7.5E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)anthracene	2.3E+00	mg/kg	2.7E-05	ug/m3	6.0E-05	1/(ug/m3)	1.6E-09	1.1E-07	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	2.8E+00	mg/kg	1.7E-07	ug/m3	6.0E-04	1/(ug/m3)	9.9E-11	6.6E-10	mg/m3	2.0E-06	mg/m3	3.3E-04
		Resident (Child)	Inhalation	Benzo(b)fluoranthene	2.7E+00	mg/kg	1.6E-07	ug/m3	6.0E-05	1/(ug/m3)	9.4E-12	6.2E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Dibenzo(a,h)anthracene	4.6E-01	mg/kg	2.7E-08	ug/m3	6.0E-04	1/(ug/m3)	1.6E-11	1.1E-10	mg/m3	NA	mg/m3	NA
		Resident (Child)	Inhalation	Lead	5.9E+01	mg/kg	1.2E-06	ug/m3	NA	NA	NA	1.4E-08	mg/m3	NA	mg/m3	NA
	DU 143	Resident (Child)	Dermal	Benzo(a)pyrene	2.2E-01	mg/kg	1.1E-08	mg/kg-day	1.0E+00	1/mg/kg-day	1.1E-08	4.6E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
		Resident (Child)	Dermal	Lead	7.5E+01	mg/kg	2.0E-04	mg/kg-day	NA	NA	NA	2.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Benzo(a)pyrene	2.2E-01	mg/kg	1.4E-07	mg/kg-day	1.0E+00	1/mg/kg-day	1.4E-07	5.5E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
		Resident (Child)	Ingestion	Lead	7.5E+01	mg/kg	8.2E-05	mg/kg-day	NA	NA	NA	9.6E-04	mg/kg-day	NA	NA	NA
		Resident (Child)	Inhalation	Benzo(a)pyrene	2.2E-01	mg/kg	1.3E-08	ug/m3	6.0E-04	1/(ug/m3)	7.8E-12	5.1E-11	mg/m3	2.0E-06	mg/m3	2.5E-05
	DU 176	Resident (Child)	Inhalation	Lead	7.5E+01	mg/kg	1.5E-06	ug/m3	NA	NA	NA	1.8E-08	mg/m3	NA	mg/m3	NA
		Resident (Child)	Dermal	Lead	4.2E+01	mg/kg	1.1E-04	mg/kg-day	NA	NA	NA	1.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	4.2E+01	mg/kg	4.6E-05	mg/kg-day	NA	NA	NA	5.4E-04	mg/kg-day	NA	NA	NA
	DU 190	Resident (Child)	Inhalation	Lead	4.2E+01	mg/kg	8.5E-07	ug/m3	NA	NA	NA	9.9E-09	mg/m3	NA	mg/m3	NA
		Resident (Child)	Dermal	Lead	7.7E+01	mg/kg	2.0E-04	mg/kg-day	NA	NA	NA	2.3E-03	mg/kg-day	NA	NA	NA
		Resident (Child)	Ingestion	Lead	7.7E+01	mg/kg	8.4E-05	mg/kg-day	NA	NA	NA	9.8E-04	mg/kg-day	NA	NA	NA
	DU 190	Resident (Child)	Inhalation	Lead	7.7E+01	mg/kg	1.5E-06	ug/m3	NA	NA	NA	1.8E-08	mg/m3	NA	mg/m3	NA

Notes:

mg/kg = milligrams per kilogram.
mg/kg-day = milligrams per kilogram per day.
mg/m³ = milligrams per cubic meter.

ug/m³ = micrograms per cubic meter.
NA = not available or not applicable

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
ISM Soil (0-2 in)	DU 002-08	Resident (Adult)	Benzo(a)pyrene	1.7E-07	3.0E-10	2.6E-08	2.0E-07	Developmental	1.3E-03	5.7E-04	1.9E-04	2.1E-03
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	1.0E-06	5.8E-11	8.7E-08	1.1E-06	Developmental	1.4E-02	1.9E-04	1.2E-03	1.5E-02
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						1E-06	Decision Unit Total for Child				2E-02
	DU 003	Resident (Adult)	Benzo(a)pyrene	1.4E-07	2.5E-10	2.1E-08	1.7E-07	Developmental	1.1E-03	4.8E-04	1.6E-04	1.7E-03
		Resident (Child)	Benzo(a)pyrene	8.7E-07	4.8E-11	7.2E-08	9.4E-07	Developmental	1.2E-02	1.6E-04	9.6E-04	1.3E-02
	Decision Unit Total						1E-06	Decision Unit Total for Child				1E-02
	DU 004	Resident (Adult)	Benzo(a)pyrene	1.2E-07	2.1E-10	1.8E-08	1.4E-07	Developmental	9.0E-04	4.0E-04	1.3E-04	1.4E-03
		Resident (Child)	Benzo(a)pyrene	7.2E-07	4.0E-11	6.0E-08	7.8E-07	Developmental	9.6E-03	1.3E-04	8.0E-04	1.1E-02
	Decision Unit Total						9E-07	Decision Unit Total for Child				1E-02
	DU 005	Resident (Adult)	Benzo(a)pyrene	1.3E-07	2.3E-10	1.9E-08	1.5E-07	Developmental	9.7E-04	4.3E-04	1.4E-04	1.5E-03
		Resident (Child)	Benzo(a)pyrene	7.8E-07	4.3E-11	6.5E-08	8.4E-07	Developmental	1.0E-02	1.4E-04	8.6E-04	1.1E-02
	Decision Unit Total						1E-06	Decision Unit Total for Child				1E-02
	DU 006	Resident (Adult)	Benzo(a)pyrene	3.8E-07	6.8E-10	5.7E-08	4.4E-07	Developmental	2.9E-03	1.3E-03	4.3E-04	4.6E-03
			Dibenzo(a,h)anthracene	6.6E-08	1.2E-10	7.9E-09	7.4E-08		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	2.3E-06	1.3E-10	1.9E-07	2.5E-06	Developmental	3.1E-02	4.3E-04	2.6E-03	3.4E-02
			Dibenzo(a,h)anthracene	4.0E-07	2.2E-11	2.7E-08	4.3E-07		NA	NA	NA	NA
	Decision Unit Total						3E-06	Decision Unit Total for Child				3E-02
	DU 009	Resident (Adult)	Benzo(a)pyrene	1.3E-07	2.3E-10	1.9E-08	1.5E-07	Developmental	9.7E-04	4.3E-04	1.4E-04	1.5E-03
		Resident (Child)	Benzo(a)pyrene	7.8E-07	4.3E-11	6.5E-08	8.4E-07	Developmental	1.0E-02	1.4E-04	8.6E-04	1.1E-02
	Decision Unit Total						1E-06	Decision Unit Total for Child				1E-02
	DU 010-01	Resident (Adult)	Benzo(a)pyrene	7.4E-08	1.3E-10	1.1E-08	8.6E-08	Developmental	5.6E-04	2.5E-04	8.3E-05	8.9E-04
		Resident (Child)	Benzo(a)pyrene	4.5E-07	2.5E-11	3.7E-08	4.9E-07	Developmental	6.0E-03	8.2E-05	5.0E-04	6.6E-03
	Decision Unit Total						6E-07	Decision Unit Total for Child				7E-03
	DU 010-03	Resident (Adult)	Benzo(a)pyrene	4.1E-07	7.2E-10	6.0E-08	4.7E-07	Developmental	3.0E-03	1.3E-03	4.5E-04	4.8E-03
			Dibenzo(a,h)anthracene	7.0E-08	1.2E-10	8.4E-09	7.8E-08		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	2.5E-06	1.4E-10	2.0E-07	2.7E-06	Developmental	3.3E-02	4.5E-04	2.7E-03	3.6E-02
			Dibenzo(a,h)anthracene	4.2E-07	2.3E-11	2.9E-08	4.5E-07		NA	NA	NA	NA
	Decision Unit Total						4E-06	Decision Unit Total for Child				4E-02

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient							
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total			
ISM Soil (0-2 in)	DU 010-04	Resident (Adult)	Benzo(a)pyrene	5.3E-07	9.3E-10	7.8E-08	6.1E-07	Developmental	4.0E-03	1.8E-03	5.9E-04	6.3E-03			
			Benzo(b)fluoranthene	4.9E-08	8.7E-11	1.1E-08	6.1E-08		NA	NA	NA	NA			
			Dibenzo(a,h)anthracene	9.3E-08	1.6E-10	1.1E-08	1.0E-07		NA	NA	NA	NA			
			Lead	NA	NA	NA	NA		NA	NA	NA	NA			
		Resident (Child)	Benzo(a)pyrene	3.2E-06	1.8E-10	2.7E-07	3.5E-06	Developmental	4.2E-02	5.9E-04	3.5E-03	4.7E-02			
			Benzo(b)fluoranthene	3.0E-07	1.7E-11	3.9E-08	3.4E-07		NA	NA	NA	NA			
			Dibenzo(a,h)anthracene	5.6E-07	3.1E-11	3.8E-08	6.0E-07		NA	NA	NA	NA			
			Lead	NA	NA	NA	NA		NA	NA	NA	NA			
	Decision Unit Total						5E-06	Decision Unit Total for Child				5E-02			
	DU 010-06	Resident (Adult)	Benzo(a)anthracene	6.1E-08	1.9E-08	7.9E-09	8.8E-08	Developmental	NA	NA	NA	NA			
			Benzo(a)pyrene	7.8E-07	1.4E-09	1.1E-07	8.9E-07		5.9E-03	2.6E-03	8.6E-04	9.3E-03			
			Benzo(b)fluoranthene	7.3E-08	1.3E-10	1.7E-08	9.1E-08		NA	NA	NA	NA			
			Dibenzo(a,h)anthracene	1.6E-07	2.8E-10	1.9E-08	1.8E-07		NA	NA	NA	NA			
			Indeno(1,2,3-cd)pyrene	5.7E-08	1.0E-10	1.2E-09	5.9E-08		NA	NA	NA	NA			
			Lead	NA	NA	NA	NA		NA	NA	NA	NA			
			Resident (Child)	Benzo(a)anthracene	3.7E-07	3.5E-09	2.7E-08		4.0E-07	Developmental	NA	NA	NA	NA	
				Benzo(a)pyrene	4.7E-06	2.6E-10	3.9E-07		5.1E-06		6.2E-02	8.6E-04	5.2E-03	6.8E-02	
		Benzo(b)fluoranthene		4.5E-07	2.5E-11	5.8E-08	5.0E-07	NA	NA		NA	NA			
		Dibenzo(a,h)anthracene		9.5E-07	5.3E-11	6.4E-08	1.0E-06	NA	NA		NA	NA			
		Indeno(1,2,3-cd)pyrene		3.5E-07	1.9E-11	4.1E-09	3.5E-07	NA	NA		NA	NA			
		Lead		NA	NA	NA	NA	NA	NA		NA	NA			
		Decision Unit Total						9E-06	Decision Unit Total for Child				7E-02		
		DU 017		Resident (Adult)	Benzo(a)pyrene	7.2E-08	1.3E-10	1.1E-08	8.3E-08		Developmental	5.4E-04	2.4E-04	8.0E-05	8.6E-04
			Resident (Child)	Benzo(a)pyrene	4.4E-07	2.4E-11	3.6E-08	4.7E-07	Developmental	5.8E-03	8.0E-05	4.8E-04	6.3E-03		
		Decision Unit Total						6E-07	Decision Unit Total for Child				6E-03		
	DU 019-01	Resident (Adult)	Benzo(a)pyrene	6.4E-08	1.1E-10	9.4E-09	7.3E-08	Developmental	4.8E-04	2.1E-04	7.1E-05	7.6E-04			
		Resident (Child)	Benzo(a)pyrene	3.9E-07	2.1E-11	3.2E-08	4.2E-07	Developmental	5.1E-03	7.1E-05	4.3E-04	5.6E-03			
	Decision Unit Total						5E-07	Decision Unit Total for Child				6E-03			
	DU 019-03	Resident (Adult)	Benzo(a)pyrene	1.1E-07	2.0E-10	1.7E-08	1.3E-07	Developmental	8.4E-04	3.7E-04	1.2E-04	1.3E-03			
		Resident (Child)	Benzo(a)pyrene	6.8E-07	3.7E-11	5.6E-08	7.3E-07	Developmental	9.0E-03	1.2E-04	7.5E-04	9.9E-03			
	Decision Unit Total						9E-07	Decision Unit Total for Child				1E-02			
	DU 019-04	Resident (Adult)	Benzo(a)pyrene	4.7E-08	8.3E-11	6.9E-09	5.4E-08	Developmental	3.5E-04	1.6E-04	5.2E-05	5.6E-04			
		Resident (Child)	Benzo(a)pyrene	2.8E-07	1.6E-11	2.4E-08	3.1E-07	Developmental	3.8E-03	5.2E-05	3.1E-04	4.1E-03			
	Decision Unit Total						4E-07	Decision Unit Total for Child				4E-03			
	DU 019-05	Resident (Adult)	Benzo(a)pyrene	4.4E-08	7.7E-11	6.5E-09	5.0E-08	Developmental	3.3E-04	1.5E-04	4.9E-05	5.2E-04			
		Resident (Child)	Benzo(a)pyrene	2.7E-07	1.5E-11	2.2E-08	2.9E-07	Developmental	3.5E-03	4.9E-05	2.9E-04	3.9E-03			
	Decision Unit Total						3E-07	Decision Unit Total for Child				4E-03			

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
ISM Soil (0-2 in)	DU 039	Resident (Adult)	Benzo(a)pyrene	6.2E-08	1.1E-10	9.1E-09	7.1E-08	Developmental	4.7E-04	2.1E-04	6.9E-05	7.4E-04
		Resident (Child)	Benzo(a)pyrene	3.7E-07	2.1E-11	3.1E-08	4.1E-07	Developmental	5.0E-03	6.8E-05	4.1E-04	5.4E-03
	Decision Unit Total						5E-07	Decision Unit Total for Child				5E-03
	DU 040	Resident (Adult)	Benzo(a)pyrene	1.1E-07	2.0E-10	1.6E-08	1.3E-07	Developmental	8.4E-04	3.7E-04	1.2E-04	1.3E-03
		Resident (Child)	Benzo(a)pyrene	6.7E-07	3.7E-11	5.6E-08	7.3E-07	Developmental	8.9E-03	1.2E-04	7.4E-04	9.8E-03
	Decision Unit Total						9E-07	Decision Unit Total for Child				1E-02
	DU 046	Resident (Adult)	Benzo(a)pyrene	7.0E-08	1.2E-10	1.0E-08	8.0E-08	Developmental	5.3E-04	2.3E-04	7.8E-05	8.3E-04
		Resident (Child)	Benzo(a)pyrene	4.2E-07	2.3E-11	3.5E-08	4.6E-07	Developmental	5.6E-03	7.7E-05	4.7E-04	6.1E-03
	Decision Unit Total						5.4E-07	Decision Unit Total for Child				6E-03
	DU 047	Resident (Adult)	Benzo(a)pyrene	9.3E-08	1.6E-10	1.4E-08	1.1E-07	Developmental	7.0E-04	3.1E-04	1.0E-04	1.1E-03
		Resident (Child)	Benzo(a)pyrene	5.7E-07	3.1E-11	4.7E-08	6.1E-07	Developmental	7.5E-03	1.0E-04	6.2E-04	8.2E-03
	Decision Unit Total						7.2E-07	Decision Unit Total for Child				8E-03
	DU 049	Resident (Adult)	Benzo(a)anthracene	1.4E-07	4.3E-08	1.8E-08	2.0E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.6E-06	2.9E-09	2.4E-07	1.9E-06		1.2E-02	5.4E-03	1.8E-03	2.0E-02
			Benzo(b)fluoranthene	1.5E-07	2.7E-10	3.6E-08	1.9E-07		NA	NA	NA	NA
			Benzo(j)fluoranthene	5.1E-08	9.0E-11	1.2E-08	6.3E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	2.7E-07	4.7E-10	3.2E-08	3.0E-07		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	9.8E-08	1.7E-10	2.1E-09	1.0E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)anthracene	8.6E-07	8.2E-09	6.2E-08	9.3E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	9.9E-06	5.5E-10	8.2E-07	1.1E-05		1.3E-01	1.8E-03	1.1E-02	1.4E-01
			Benzo(b)fluoranthene	9.3E-07	5.2E-11	1.2E-07	1.1E-06		NA	NA	NA	NA
			Benzo(j)fluoranthene	1.6E-07	9.0E-12	2.1E-08	1.8E-07		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	1.6E-06	8.9E-11	1.1E-07	1.7E-06		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	5.9E-07	3.3E-11	7.0E-09	6.0E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						2E-05	Decision Unit Total for Child				1E-01
	DU 050	Resident (Adult)	Benzo(a)pyrene	4.2E-07	7.4E-10	6.2E-08	4.8E-07	Developmental	3.2E-03	1.4E-03	4.7E-04	5.0E-03
			Dibenzo(a,h)anthracene	8.0E-08	1.4E-10	9.6E-09	8.9E-08	NA	NA	NA	NA	
		Resident (Child)	Benzo(a)pyrene	2.5E-06	1.4E-10	2.1E-07	2.8E-06	Developmental	3.4E-02	4.7E-04	2.8E-03	3.7E-02
	Dibenzo(a,h)anthracene	4.8E-07	2.7E-11	3.3E-08	5.2E-07	NA	NA	NA	NA			
	Decision Unit Total						4E-06	Decision Unit Total for Child				4E-02
	DU 053	Resident (Adult)	Benzo(a)pyrene	2.5E-07	4.4E-10	3.7E-08	2.8E-07	Developmental	1.9E-03	8.2E-04	2.8E-04	3.0E-03
		Resident (Child)	Benzo(a)pyrene	1.5E-06	8.3E-11	1.2E-07	1.6E-06	Developmental	2.0E-02	2.7E-04	1.6E-03	2.2E-02
	Decision Unit Total						2E-06	Decision Unit Total for Child				2E-02

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
ISM Soil (0-2 in)	DU 054	Resident (Adult)	Benzo(a)anthracene	1.3E-07	3.9E-08	1.7E-08	1.9E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.5E-06	2.7E-09	2.3E-07	1.8E-06		1.2E-02	5.1E-03	1.7E-03	1.8E-02
			Benzo(b)fluoranthene	1.4E-07	2.4E-10	3.2E-08	1.7E-07		NA	NA	NA	NA
			Benzo(j)fluoranthene	4.5E-08	7.9E-11	1.0E-08	5.5E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	2.8E-07	4.9E-10	3.3E-08	3.1E-07		NA	NA	NA	NA
		Resident (Child)	Indeno(1,2,3-cd)pyrene	1.1E-07	1.9E-10	2.3E-09	1.1E-07	Developmental	NA	NA	NA	NA
			Benzo(a)anthracene	7.8E-07	7.5E-09	5.6E-08	8.5E-07		NA	NA	NA	NA
			Benzo(a)pyrene	9.3E-06	5.2E-10	7.8E-07	1.0E-05		1.2E-01	1.7E-03	1.0E-02	1.4E-01
			Benzo(b)fluoranthene	8.4E-07	4.6E-11	1.1E-07	9.5E-07		NA	NA	NA	NA
			Benzo(j)fluoranthene	1.4E-07	7.9E-12	1.9E-08	1.6E-07		NA	NA	NA	NA
	DU 056	Resident (Adult)	Dibenzo(a,h)anthracene	1.7E-06	9.2E-11	1.1E-07	1.8E-06	Developmental	NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	6.5E-07	3.6E-11	7.7E-09	6.6E-07		NA	NA	NA	NA
			Decision Unit Total	2E-05				Decision Unit Total for Child				1E-01
		Resident (Child)	Benzo(a)pyrene	6.5E-07	1.1E-09	9.6E-08	7.4E-07	Developmental	4.9E-03	2.1E-03	7.2E-04	7.7E-03
			Benzo(b)fluoranthene	6.5E-08	1.1E-10	1.5E-08	8.0E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	1.1E-07	2.0E-10	1.4E-08	1.3E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
			Benzo(a)pyrene	3.9E-06	2.2E-10	3.3E-07	4.2E-06	Developmental	5.2E-02	7.2E-04	4.3E-03	5.7E-02
			Benzo(b)fluoranthene	3.9E-07	2.2E-11	5.1E-08	4.4E-07		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	6.8E-07	3.8E-11	4.6E-08	7.3E-07		NA	NA	NA	NA
	DU 064	Resident (Adult)	Lead	NA	NA	NA	NA	Developmental	NA	NA	NA	NA
			Decision Unit Total	6E-06				Decision Unit Total for Child				6E-02
			Benzo(a)pyrene	1.2E-07	2.2E-10	1.8E-08	1.4E-07	Developmental	9.2E-04	4.1E-04	1.4E-04	1.5E-03
			Benzo(a)pyrene	7.4E-07	4.1E-11	6.1E-08	8.0E-07		9.8E-03	1.4E-04	8.1E-04	1.1E-02
		Resident (Child)	Decision Unit Total	9E-07				Decision Unit Total for Child				1E-02
			Benzo(a)pyrene	2.0E-07	3.6E-10	3.0E-08	2.3E-07	Developmental	1.5E-03	6.8E-04	2.3E-04	2.4E-03
			Benzo(a)pyrene	1.2E-06	6.8E-11	1.0E-07	1.3E-06		1.6E-02	2.3E-04	1.4E-03	1.8E-02
			Decision Unit Total	2E-06				Decision Unit Total for Child				2E-02
		Resident (Adult)	Benzo(a)pyrene	4.9E-07	8.6E-10	7.2E-08	5.6E-07	Developmental	3.7E-03	1.6E-03	5.4E-04	5.8E-03
			Dibenzo(a,h)anthracene	8.6E-08	1.5E-10	1.0E-08	9.6E-08		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	2.9E-06	1.6E-10	2.4E-07	3.2E-06	Developmental	3.9E-02	5.4E-04	3.2E-03	4.3E-02
			Dibenzo(a,h)anthracene	5.2E-07	2.9E-11	3.5E-08	5.5E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	DU 077	Resident (Adult)	Decision Unit Total	4E-06				Decision Unit Total for Child				4E-02
			Benzo(a)pyrene	6.1E-08	1.1E-10	8.9E-09	7.0E-08	Developmental	4.6E-04	2.0E-04	6.7E-05	7.2E-04
			Benzo(a)pyrene	3.7E-07	2.0E-11	3.0E-08	4.0E-07		4.9E-03	6.7E-05	4.0E-04	5.3E-03
		Resident (Child)	Decision Unit Total	5E-07				Decision Unit Total for Child				5E-03

TABLE 9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current ISM Soil (0-2 in)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
ISM Soil (0-2 in)	DU 134	Resident (Adult)	Benzo(a)pyrene	6.7E-08	1.2E-10	1.0E-08	7.7E-08	Developmental	5.1E-04	2.2E-04	7.5E-05	8.1E-04
		Resident (Child)	Benzo(a)pyrene	4.1E-07	2.3E-11	3.4E-08	4.4E-07	Developmental	5.4E-03	7.5E-05	4.5E-04	5.9E-03
	Decision Unit Total						5E-07	Decision Unit Total for Child				6E-03
	DU 140	Resident (Adult)	Benzo(a)pyrene	9.1E-08	1.6E-10	1.4E-08	1.1E-07	Developmental	6.9E-04	3.0E-04	1.0E-04	1.1E-03
		Resident (Child)	Benzo(a)pyrene	5.5E-07	3.1E-11	4.6E-08	6.0E-07	Developmental	7.3E-03	1.0E-04	6.1E-04	8.0E-03
	Decision Unit Total						7E-07	Decision Unit Total for Child				8E-03
	DU 464	Resident (Adult)	Benzo(a)pyrene	6.2E-08	1.1E-10	9.2E-09	7.2E-08	Developmental	4.7E-04	2.1E-04	6.9E-05	7.5E-04
		Resident (Child)	Benzo(a)pyrene	3.8E-07	2.1E-11	3.1E-08	4.1E-07	Developmental	5.0E-03	6.9E-05	4.2E-04	5.5E-03
	Decision Unit Total						5E-07	Decision Unit Total for Child				5E-03
	DU 465	Resident (Adult)	Benzo(a)pyrene	6.0E-08	1.1E-10	8.8E-09	6.8E-08	Developmental	4.5E-04	2.0E-04	6.6E-05	7.1E-04
		Resident (Child)	Benzo(a)pyrene	3.6E-07	2.0E-11	3.0E-08	3.9E-07	Developmental	4.8E-03	6.6E-05	4.0E-04	5.2E-03
	Decision Unit Total						5E-07	Decision Unit Total for Child				5E-03

TABLE 9.2.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Current Stratification Soil (0-6 in)

Receptor Population: Resident

Receptor Age: Adult and Child

Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Stratification Soil (0-6 in)	DU 003	Resident (Adult)	Benzo(a)pyrene	9.9E-08	1.7E-10	1.5E-08	1.1E-07	Developmental	7.4E-04	3.3E-04	1.1E-04	1.2E-03
		Resident (Child)	Benzo(a)pyrene	6.0E-07	3.3E-11	5.0E-08	6.5E-07	Developmental	7.9E-03	1.1E-04	6.6E-04	8.7E-03
	Decision Unit Total						8E-07	Decision Unit Total for Child				9E-03
	DU 009	Resident (Adult)	Benzo(a)anthracene	1.7E-07	5.2E-08	2.2E-08	2.5E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.9E-06	3.3E-09	2.7E-07	2.1E-06		1.4E-02	6.2E-03	2.1E-03	2.2E-02
			Benzo(b)fluoranthene	1.8E-07	3.2E-10	4.2E-08	2.2E-07		NA	NA	NA	NA
			Benzo(j)fluoranthene	6.1E-08	1.1E-10	1.4E-08	7.6E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	3.2E-07	5.7E-10	3.9E-08	3.6E-07		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	1.1E-07	2.0E-10	2.4E-09	1.1E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)anthracene	1.0E-06	9.9E-09	7.5E-08	1.1E-06	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.1E-05	6.2E-10	9.3E-07	1.2E-05		1.5E-01	2.1E-03	1.2E-02	1.6E-01
			Benzo(b)fluoranthene	1.1E-06	6.0E-11	1.4E-07	1.2E-06		NA	NA	NA	NA
			Benzo(j)fluoranthene	2.0E-07	1.1E-11	2.6E-08	2.2E-07		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	2.0E-06	1.1E-10	1.3E-07	2.1E-06		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	6.8E-07	3.7E-11	8.0E-09	6.8E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						2E-05	Decision Unit Total for Child				2E-01
	DU 044	Resident (Adult)	Benzo(a)pyrene	3.6E-07	6.4E-10	5.4E-08	4.2E-07	Developmental	2.7E-03	1.2E-03	4.1E-04	4.4E-03
			Dibenzo(a,h)anthracene	6.9E-08	1.2E-10	8.3E-09	7.7E-08	NA	NA	NA	NA	
		Resident (Child)	Benzo(a)pyrene	2.2E-06	1.2E-10	1.8E-07	2.4E-06	Developmental	2.9E-02	4.0E-04	2.4E-03	3.2E-02
	Dibenzo(a,h)anthracene		4.2E-07	2.3E-11	2.8E-08	4.5E-07	NA	NA	NA	NA		
	Decision Unit Total						3E-06	Decision Unit Total for Child				3E-02
	DU 066	Resident (Adult)	Benzo(a)pyrene	1.6E-07	2.8E-10	2.4E-08	1.8E-07	Developmental	1.2E-03	5.3E-04	1.8E-04	1.9E-03
			Lead	NA	NA	NA	NA	NA	NA	NA	NA	
		Resident (Child)	Benzo(a)pyrene	9.7E-07	5.4E-11	8.1E-08	1.1E-06	Developmental	1.3E-02	1.8E-04	1.1E-03	1.4E-02
	Lead		NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Decision Unit Total						1E-06	Decision Unit Total for Child				1E-02
DU 132	Resident (Adult)	Benzo(a)pyrene	1.3E-07	2.3E-10	1.9E-08	1.5E-07	Developmental	9.8E-04	4.3E-04	1.4E-04	1.6E-03	
		Lead	NA	NA	NA	NA	NA	NA	NA	NA		
	Resident (Child)	Benzo(a)pyrene	7.9E-07	4.4E-11	6.6E-08	8.5E-07	Developmental	1.0E-02	1.4E-04	8.7E-04	1.1E-02	
Lead		NA	NA	NA	NA	NA	NA	NA	NA	NA		
Decision Unit Total						1E-06	Decision Unit Total for Child				1E-02	
DU 146	Resident (Adult)	Lead	NA	NA	NA	NA		NA	NA	NA	NA	
	Resident (Child)	Lead	NA	NA	NA	NA		NA	NA	NA	NA	
Decision Unit Total						NA	Decision Unit Total for Child				NA	

**TABLE 9.2.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX**

Scenario Timeframe: Current Stratification Soil (0-6 in)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Stratification Soil (0-6 in)	DU 151	Resident (Adult)	Benzo(a)pyrene	5.0E-08	8.8E-11	7.3E-09	5.7E-08	Developmental	3.7E-04	1.6E-04	5.5E-05	5.9E-04
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Resident (Child)	Benzo(a)pyrene	3.0E-07	1.7E-11	2.5E-08	3.3E-07	Developmental	4.0E-03	5.5E-05	3.3E-04	4.4E-03	
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Decision Unit Total					4E-07	Decision Unit Total for Child				

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Soil (0-12 ft)	DU 002-08	Resident (Adult)	Benzo(a)pyrene	8.0E-08	1.4E-10	1.2E-08	9.2E-08	Developmental	6.0E-04	2.7E-04	8.9E-05	9.6E-04
		Resident (Child)	Benzo(a)pyrene	4.8E-07	2.7E-11	4.0E-08	5.3E-07	Developmental	6.4E-03	8.9E-05	5.3E-04	7.0E-03
	Decision Unit Total						6E-07	Decision Unit Total for Child				7E-03
	DU 009	Resident (Adult)	Benzo(a)pyrene	7.0E-08	1.2E-10	1.0E-08	8.0E-08	Developmental	5.2E-04	2.3E-04	7.7E-05	8.3E-04
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	4.2E-07	2.3E-11	3.5E-08	4.6E-07	Developmental	5.6E-03	7.7E-05	4.6E-04	6.1E-03
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						5E-07	Decision Unit Total for Child				6E-03
	DU 010	Resident (Adult)	Benzo(a)pyrene	5.0E-08	8.9E-11	7.4E-09	5.8E-08	Developmental	3.8E-04	1.7E-04	5.6E-05	6.0E-04
		Resident (Child)	Benzo(a)pyrene	3.0E-07	1.7E-11	2.5E-08	3.3E-07	Developmental	4.0E-03	5.6E-05	3.4E-04	4.4E-03
	Decision Unit Total						4E-07	Decision Unit Total for Child				4E-03
	DU 010-03	Resident (Adult)	Benzo(a)anthracene	5.0E-08	1.5E-08	6.4E-09	7.2E-08	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	5.4E-07	9.5E-10	8.0E-08	6.2E-07		4.1E-03	1.8E-03	6.0E-04	6.5E-03
			Benzo(b)fluoranthene	5.2E-08	9.2E-11	1.2E-08	6.4E-08		NA	NA	NA	NA
			Benzo(j)fluoranthene	1.8E-08	3.2E-11	4.3E-09	2.3E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	1.0E-07	1.8E-10	1.2E-08	1.2E-07		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	3.6E-08	6.4E-11	7.7E-10	3.7E-08		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)anthracene	3.0E-07	2.9E-09	2.2E-08	3.3E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	3.3E-06	1.8E-10	2.7E-07	3.5E-06		4.3E-02	6.0E-04	3.6E-03	4.8E-02
			Benzo(b)fluoranthene	3.1E-07	1.7E-11	4.1E-08	3.6E-07		NA	NA	NA	NA
			Benzo(j)fluoranthene	5.9E-08	3.2E-12	7.7E-09	6.6E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	6.2E-07	3.4E-11	4.2E-08	6.7E-07		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	2.2E-07	1.2E-11	2.6E-09	2.2E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						6E-06	Decision Unit Total for Child				5E-02

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Soil (0-12 ft)	DU 010-04	Resident (Adult)	Benzo(a)anthracene	4.1E-07	1.3E-07	5.3E-08	5.9E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	4.4E-06	7.8E-09	6.6E-07	5.1E-06		3.3E-02	1.5E-02	4.9E-03	5.3E-02
			Benzo(b)fluoranthene	4.2E-07	7.4E-10	9.7E-08	5.1E-07		NA	NA	NA	NA
			Benzo(j)fluoranthene	1.4E-07	2.5E-10	3.3E-08	1.7E-07		NA	NA	NA	NA
			Benzo(k)fluoranthene	2.1E-08	3.8E-11	1.6E-09	2.3E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	7.1E-07	1.3E-09	8.5E-08	8.0E-07		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	2.6E-07	4.6E-10	5.5E-09	2.7E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)anthracene	2.5E-06	2.4E-08	1.8E-07	2.7E-06	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	2.7E-05	1.5E-09	2.2E-06	2.9E-05		3.6E-01	4.9E-03	3.0E-02	3.9E-01
			Benzo(b)fluoranthene	2.5E-06	1.4E-10	3.3E-07	2.9E-06		NA	NA	NA	NA
			Benzo(j)fluoranthene	4.5E-07	2.5E-11	5.9E-08	5.1E-07		NA	NA	NA	NA
			Benzo(k)fluoranthene	1.3E-07	7.1E-12	5.4E-09	1.3E-07		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	4.3E-06	2.4E-10	2.9E-07	4.6E-06		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	1.6E-06	8.8E-11	1.9E-08	1.6E-06		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						5E-05	Decision Unit Total for Child				4E-01
	DU 010-06	Resident (Adult)	Benzo(a)anthracene	1.7E-07	5.1E-08	2.1E-08	2.4E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.8E-06	3.2E-09	2.7E-07	2.1E-06		1.4E-02	6.0E-03	2.0E-03	2.1E-02
			Benzo(b)fluoranthene	1.7E-07	3.0E-10	4.0E-08	2.1E-07		NA	NA	NA	NA
			Benzo(j)fluoranthene	5.8E-08	1.0E-10	1.3E-08	7.1E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	3.0E-07	5.3E-10	3.6E-08	3.4E-07		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	1.1E-07	1.9E-10	2.3E-09	1.1E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
			Resident (Child)	Benzo(a)anthracene	1.0E-06	9.6E-09	7.3E-08		1.1E-06	Developmental	NA	NA
		Benzo(a)pyrene		1.1E-05	6.0E-10	9.0E-07	1.2E-05	1.4E-01	2.0E-03		1.2E-02	1.6E-01
		Benzo(b)fluoranthene		1.0E-06	5.7E-11	1.3E-07	1.2E-06	NA	NA		NA	NA
Benzo(j)fluoranthene		1.8E-07		1.0E-11	2.4E-08	2.1E-07	NA	NA	NA		NA	
Dibenzo(a,h)anthracene		1.8E-06		1.0E-10	1.2E-07	1.9E-06	NA	NA	NA		NA	
Indeno(1,2,3-cd)pyrene		6.6E-07		3.6E-11	7.8E-09	6.7E-07	NA	NA	NA		NA	
Lead		NA		NA	NA	NA	NA	NA	NA		NA	
Decision Unit Total						2E-05	Decision Unit Total for Child				2E-01	
DU 016		Resident (Adult)	Benzo(a)anthracene	1.8E-08	5.4E-09	2.3E-09	2.5E-08	Developmental	NA	NA	NA	NA
	Benzo(a)pyrene		1.6E-07	2.8E-10	2.4E-08	1.9E-07	1.2E-03		5.4E-04	1.8E-04	1.9E-03	
	Dibenzo(a,h)anthracene		2.3E-08	4.0E-11	2.7E-09	2.5E-08	NA		NA	NA	NA	
	Resident (Child)	Benzo(a)anthracene	1.1E-07	1.0E-09	7.8E-09	1.2E-07	Developmental	NA	NA	NA	NA	
		Benzo(a)pyrene	9.8E-07	5.4E-11	8.1E-08	1.1E-06		1.3E-02	1.8E-04	1.1E-03	1.4E-02	
		Dibenzo(a,h)anthracene	1.4E-07	7.5E-12	9.2E-09	1.5E-07		NA	NA	NA	NA	
Decision Unit Total						2E-06	Decision Unit Total for Child				1E-02	

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Soil (0-12 ft)	DU 019-01	Resident (Adult)	Benzo(a)pyrene	5.4E-08	9.6E-11	8.0E-09	6.2E-08	Developmental	4.1E-04	1.8E-04	6.0E-05	6.5E-04
		Resident (Child)	Benzo(a)pyrene	3.3E-07	1.8E-11	2.7E-08	3.6E-07	Developmental	4.4E-03	6.0E-05	3.6E-04	4.8E-03
	Decision Unit Total						4E-07	Decision Unit Total for Child				5E-03
	DU 038	Resident (Adult)	Benzo(a)anthracene	2.5E-08	7.6E-09	3.2E-09	3.6E-08	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	2.2E-07	3.9E-10	3.3E-08	2.5E-07		1.7E-03	7.3E-04	2.5E-04	2.6E-03
			Benzo(b)fluoranthene	1.9E-08	3.4E-11	4.5E-09	2.4E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	2.5E-08	4.5E-11	3.1E-09	2.9E-08		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)anthracene	1.5E-07	1.4E-09	1.1E-08	1.6E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.3E-06	7.4E-11	1.1E-07	1.4E-06		1.8E-02	2.4E-04	1.5E-03	1.9E-02
			Benzo(b)fluoranthene	1.2E-07	6.4E-12	1.5E-08	1.3E-07		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	1.5E-07	8.5E-12	1.0E-08	1.6E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						2E-06	Decision Unit Total for Child				2E-02
	DU 040	Resident (Adult)	Benzo(a)anthracene	6.5E-08	2.0E-08	8.3E-09	9.3E-08	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	5.9E-07	1.0E-09	8.7E-08	6.7E-07		4.4E-03	1.9E-03	6.5E-04	7.0E-03
Benzo(b)fluoranthene			5.4E-08	9.6E-11	1.3E-08	6.7E-08	NA		NA	NA	NA	
Benzo(j)fluoranthene			1.9E-08	3.4E-11	4.5E-09	2.4E-08	NA		NA	NA	NA	
Dibenzo(a,h)anthracene			5.7E-08	1.0E-10	6.9E-09	6.4E-08	NA		NA	NA	NA	
Indeno(1,2,3-cd)pyrene			3.4E-08	6.0E-11	7.2E-10	3.5E-08	NA		NA	NA	NA	
Lead			NA	NA	NA	NA	NA		NA	NA	NA	
Resident (Child)		Benzo(a)anthracene	3.9E-07	3.7E-09	2.8E-08	4.3E-07	Developmental	NA	NA	NA	NA	
		Benzo(a)pyrene	3.5E-06	2.0E-10	2.9E-07	3.8E-06		4.7E-02	6.5E-04	3.9E-03	5.2E-02	
		Benzo(b)fluoranthene	3.3E-07	1.8E-11	4.3E-08	3.7E-07		NA	NA	NA	NA	
		Benzo(j)fluoranthene	6.2E-08	3.4E-12	8.1E-09	7.0E-08		NA	NA	NA	NA	
		Dibenzo(a,h)anthracene	3.5E-07	1.9E-11	2.3E-08	3.7E-07		NA	NA	NA	NA	
		Indeno(1,2,3-cd)pyrene	2.1E-07	1.1E-11	2.4E-09	2.1E-07		NA	NA	NA	NA	
		Lead	NA	NA	NA	NA		NA	NA	NA	NA	
Decision Unit Total						6E-06	Decision Unit Total for Child				5E-02	

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Soil (0-12 ft)	DU 044	Resident (Adult)	Benzo(a)anthracene	9.8E-08	3.0E-08	1.3E-08	1.4E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.0E-06	1.8E-09	1.5E-07	1.2E-06		7.8E-03	3.4E-03	1.2E-03	1.2E-02
			Benzo(b)fluoranthene	9.7E-08	1.7E-10	2.3E-08	1.2E-07		NA	NA	NA	NA
			Benzo(j)fluoranthene	2.2E-08	3.9E-11	5.1E-09	2.7E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	1.1E-07	2.0E-10	1.4E-08	1.3E-07		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	6.3E-08	1.1E-10	1.3E-09	6.4E-08		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)anthracene	5.9E-07	5.6E-09	4.3E-08	6.4E-07	Developmental	NA	NA	NA	NA
	Benzo(a)pyrene	6.3E-06	3.5E-10	5.2E-07	6.8E-06	8.3E-02	1.1E-03		6.9E-03	9.1E-02		
	Benzo(b)fluoranthene	5.9E-07	3.2E-11	7.7E-08	6.6E-07	NA	NA		NA	NA		
	Benzo(j)fluoranthene	7.1E-08	3.9E-12	9.2E-09	8.0E-08	NA	NA		NA	NA		
	Dibenzo(a,h)anthracene	6.8E-07	3.8E-11	4.6E-08	7.3E-07	NA	NA		NA	NA		
	Indeno(1,2,3-cd)pyrene	3.8E-07	2.1E-11	4.5E-09	3.8E-07	NA	NA		NA	NA		
	Lead	NA	NA	NA	NA	NA	NA		NA	NA		
	Decision Unit Total						1E-05	Decision Unit Total for Child				9E-02
	DU 046	Resident (Adult)	Benzo(a)pyrene	8.9E-08	1.6E-10	1.3E-08	1.0E-07	Developmental	6.7E-04	3.0E-04	9.9E-05	1.1E-03
		Resident (Child)	Benzo(a)pyrene	5.4E-07	3.0E-11	4.5E-08	5.8E-07	Developmental	7.2E-03	9.9E-05	5.9E-04	7.9E-03
	Decision Unit Total						7E-07	Decision Unit Total for Child				8E-03
	DU 050	Resident (Adult)	Benzo(a)anthracene	1.3E-07	4.1E-08	1.7E-08	1.9E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.4E-06	2.6E-09	2.1E-07	1.7E-06		1.1E-02	4.8E-03	1.6E-03	1.7E-02
Benzo(b)fluoranthene			1.4E-07	2.4E-10	3.1E-08	1.7E-07	NA		NA	NA	NA	
Benzo(j)fluoranthene			4.4E-08	7.8E-11	1.0E-08	5.5E-08	NA		NA	NA	NA	
Dibenzo(a,h)anthracene			2.4E-07	4.2E-10	2.9E-08	2.7E-07	NA		NA	NA	NA	
Indeno(1,2,3-cd)pyrene			9.0E-08	1.6E-10	1.9E-09	9.2E-08	NA		NA	NA	NA	
Lead			NA	NA	NA	NA	NA		NA	NA	NA	
Resident (Child)		Benzo(a)anthracene	8.1E-07	7.7E-09	5.8E-08	8.7E-07	Developmental	NA	NA	NA	NA	
Benzo(a)pyrene		8.8E-06	4.8E-10	7.3E-07	9.5E-06	1.2E-01		1.6E-03	9.6E-03	1.3E-01		
Benzo(b)fluoranthene		8.2E-07	4.5E-11	1.1E-07	9.3E-07	NA		NA	NA	NA		
Benzo(j)fluoranthene		1.4E-07	7.8E-12	1.8E-08	1.6E-07	NA		NA	NA	NA		
Dibenzo(a,h)anthracene		1.5E-06	8.0E-11	9.8E-08	1.6E-06	NA		NA	NA	NA		
Indeno(1,2,3-cd)pyrene		5.5E-07	3.0E-11	6.5E-09	5.5E-07	NA		NA	NA	NA		
Lead		NA	NA	NA	NA	NA		NA	NA	NA		
Decision Unit Total						2E-05	Decision Unit Total for Child				1E-01	
DU 053	Resident (Adult)	Benzo(a)pyrene	1.7E-07	3.0E-10	2.5E-08	2.0E-07	Developmental	1.3E-03	5.7E-04	1.9E-04	2.0E-03	
		Dibenzo(a,h)anthracene	3.2E-08	5.6E-11	3.8E-09	3.5E-08	NA	NA	NA	NA		
	Resident (Child)	Benzo(a)pyrene	1.0E-06	5.7E-11	8.6E-08	1.1E-06	Developmental	1.4E-02	1.9E-04	1.1E-03	1.5E-02	
		Dibenzo(a,h)anthracene	1.9E-07	1.1E-11	1.3E-08	2.0E-07	NA	NA	NA	NA		
Decision Unit Total						2E-06	Decision Unit Total for Child				2E-02	

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
 Receptor Population: Resident
 Receptor Age: Adult and Child
 Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Soil (0-12 ft)	DU 056	Resident (Adult)	Benzo(a)pyrene	8.3E-08	1.5E-10	1.2E-08	9.5E-08	Developmental	6.2E-04	2.7E-04	9.2E-05	9.9E-04
			Dibenzo(a,h)anthracene	1.6E-08	2.8E-11	1.9E-09	1.8E-08	NA	NA	NA	NA	
			Lead	NA	NA	NA	NA	NA	NA	NA	NA	
		Resident (Child)	Benzo(a)pyrene	5.0E-07	2.8E-11	4.2E-08	5.4E-07	Developmental	6.6E-03	9.2E-05	5.5E-04	7.3E-03
			Dibenzo(a,h)anthracene	9.5E-08	5.2E-12	6.4E-09	1.0E-07	NA	NA	NA	NA	
			Lead	NA	NA	NA	NA	NA	NA	NA	NA	
	Decision Unit Total						8E-07	Decision Unit Total for Child				7E-03
	DU 058	Resident (Adult)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						NA	Decision Unit Total for Child				NA
	DU 063	Resident (Adult)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						NA	Decision Unit Total for Child				NA
	DU 064	Resident (Adult)	Benzo(a)anthracene	3.8E-08	1.2E-08	4.9E-09	5.5E-08	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	7.4E-07	1.3E-09	1.1E-07	8.6E-07		5.6E-03	2.5E-03	8.3E-04	8.9E-03
			Benzo(b)fluoranthene	6.5E-08	1.2E-10	1.5E-08	8.1E-08		NA	NA	NA	NA
			Benzo(j)fluoranthene	2.3E-08	4.0E-11	5.3E-09	2.8E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	1.3E-07	2.2E-10	1.5E-08	1.4E-07		NA	NA	NA	NA
			Indeno(1,2,3-cd)pyrene	4.8E-08	8.5E-11	1.0E-09	4.9E-08		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)anthracene	2.3E-07	2.2E-09	1.7E-08	2.5E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	4.5E-06	2.5E-10	3.7E-07	4.9E-06		6.0E-02	8.2E-04	5.0E-03	6.6E-02
			Benzo(b)fluoranthene	4.0E-07	2.2E-11	5.2E-08	4.5E-07		NA	NA	NA	NA
Benzo(j)fluoranthene			7.3E-08	4.0E-12	9.5E-09	8.2E-08	NA		NA	NA	NA	
Dibenzo(a,h)anthracene			7.6E-07	4.2E-11	5.1E-08	8.1E-07	NA		NA	NA	NA	
Indeno(1,2,3-cd)pyrene			2.9E-07	1.6E-11	3.4E-09	2.9E-07	NA		NA	NA	NA	
Lead			NA	NA	NA	NA	NA		NA	NA	NA	
Decision Unit Total						8E-06	Decision Unit Total for Child				7E-02	
DU 066	Resident (Adult)	Benzo(a)pyrene	3.1E-08	5.5E-11	4.6E-09	3.6E-08	Developmental	2.3E-04	1.0E-04	3.5E-05	3.7E-04	
		Lead	NA	NA	NA	NA	NA	NA	NA	NA		
	Resident (Child)	Benzo(a)pyrene	1.9E-07	1.0E-11	1.6E-08	2.0E-07	Developmental	2.5E-03	3.5E-05	2.1E-04	2.7E-03	
Decision Unit Total						2E-07	Decision Unit Total for Child				3E-03	

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient					
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	
Soil (0-12 ft)	DU 074	Resident (Adult)	Benzo(a)anthracene	4.8E-07	1.5E-07	6.1E-08	6.8E-07	Developmental	NA	NA	NA	NA	
			Benzo(a)pyrene	5.0E-06	8.8E-09	7.3E-07	5.7E-06		3.7E-02	1.6E-02	5.5E-03	5.9E-02	
			Benzo(b)fluoranthene	4.5E-07	8.0E-10	1.1E-07	5.6E-07		NA	NA	NA	NA	
			Benzo(j)fluoranthene	1.6E-07	2.8E-10	3.7E-08	1.9E-07		NA	NA	NA	NA	
			Benzo(k)fluoranthene	2.4E-08	4.2E-11	1.7E-09	2.5E-08		NA	NA	NA	NA	
			Dibenzo(a,h)anthracene	7.6E-07	1.3E-09	9.2E-08	8.5E-07		NA	NA	NA	NA	
			Indeno(1,2,3-cd)pyrene	2.7E-07	4.8E-10	5.7E-09	2.8E-07		NA	NA	NA	NA	
			Lead	NA	NA	NA	NA		NA	NA	NA	NA	
		Resident (Child)	Benzo(a)anthracene	2.9E-06	2.7E-08	2.1E-07	3.1E-06	Developmental	NA	NA	NA	NA	
			Benzo(a)pyrene	3.0E-05	1.7E-09	2.5E-06	3.3E-05		4.0E-01	5.5E-03	3.3E-02	4.4E-01	
			Benzo(b)fluoranthene	2.7E-06	1.5E-10	3.6E-07	3.1E-06		NA	NA	NA	NA	
			Benzo(j)fluoranthene	5.1E-07	2.8E-11	6.6E-08	5.7E-07		NA	NA	NA	NA	
			Benzo(k)fluoranthene	1.4E-07	7.9E-12	6.0E-09	1.5E-07		NA	NA	NA	NA	
			Dibenzo(a,h)anthracene	4.6E-06	2.5E-10	3.1E-07	4.9E-06		NA	NA	NA	NA	
	Decision Unit Total						5E-05	Decision Unit Total for Child				4E-01	
		DU 077	Resident (Adult)	Benzo(a)pyrene	8.2E-08	1.4E-10	1.2E-08	9.4E-08	Developmental	6.2E-04	2.7E-04	9.1E-05	9.8E-04
	Resident (Child)		Benzo(a)pyrene	5.0E-07	2.7E-11	4.1E-08	5.4E-07	Developmental	6.6E-03	9.1E-05	5.5E-04	7.2E-03	
	Decision Unit Total							6E-07	Decision Unit Total for Child				7E-03
	DU 080	Resident (Adult)	Benzo(a)pyrene	2.0E-07	3.5E-10	2.9E-08	2.3E-07	Developmental	1.5E-03	6.5E-04	2.2E-04	2.3E-03	
			Dibenzo(a,h)anthracene	5.2E-08	9.2E-11	6.3E-09	5.9E-08		NA	NA	NA	NA	
			Lead	NA	NA	NA	NA		NA	NA	NA	NA	
		Resident (Child)	Benzo(a)pyrene	1.2E-06	6.5E-11	9.8E-08	1.3E-06	Developmental	1.6E-02	2.2E-04	1.3E-03	1.7E-02	
			Dibenzo(a,h)anthracene	3.2E-07	1.7E-11	2.1E-08	3.4E-07		NA	NA	NA	NA	
			Lead	NA	NA	NA	NA		NA	NA	NA	NA	
	Decision Unit Total							2E-06	Decision Unit Total for Child				2E-02
	DU 082	Resident (Adult)	Benzo(a)pyrene	2.0E-07	3.6E-10	3.0E-08	2.3E-07	Developmental	1.5E-03	6.7E-04	2.2E-04	2.4E-03	
			Dibenzo(a,h)anthracene	2.2E-08	3.8E-11	2.6E-09	2.4E-08		NA	NA	NA	NA	
Resident (Child)		Benzo(a)pyrene	1.2E-06	6.8E-11	1.0E-07	1.3E-06	Developmental	1.6E-02	2.2E-04	1.3E-03	1.8E-02		
		Dibenzo(a,h)anthracene	1.3E-07	7.3E-12	8.9E-09	1.4E-07		NA	NA	NA	NA		
Decision Unit Total							2E-06	Decision Unit Total for Child				2E-02	
DU 083	Resident (Adult)	Benzo(a)pyrene	1.2E-07	2.1E-10	1.7E-08	1.3E-07	Developmental	8.8E-04	3.9E-04	1.3E-04	1.4E-03		
		Lead	NA	NA	NA	NA		NA	NA	NA	NA		
	Resident (Child)	Benzo(a)pyrene	7.0E-07	3.9E-11	5.8E-08	7.6E-07	Developmental	9.3E-03	1.3E-04	7.8E-04	1.0E-02		
		Lead	NA	NA	NA	NA		NA	NA	NA	NA		
Decision Unit Total							9E-07	Decision Unit Total for Child				1E-02	

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Soil (0-12 ft)	DU 084	Resident (Adult)	Benzo(a)pyrene	4.9E-08	8.7E-11	7.2E-09	5.6E-08	Developmental	3.7E-04	1.6E-04	5.5E-05	5.9E-04
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	3.0E-07	1.6E-11	2.5E-08	3.2E-07	Developmental	3.9E-03	5.4E-05	3.3E-04	4.3E-03
		Lead	NA	NA	NA	NA		NA	NA	NA	NA	
	Decision Unit Total						4E-07	Decision Unit Total for Child				4E-03
	DU 087	Resident (Adult)	Benzo(a)pyrene	1.1E-07	2.0E-10	1.7E-08	1.3E-07	Developmental	8.6E-04	3.8E-04	1.3E-04	1.4E-03
			Benzo(a)pyrene	6.9E-07	3.8E-11	5.7E-08	7.5E-07	Developmental	9.1E-03	1.3E-04	7.6E-04	1.0E-02
	Decision Unit Total						9E-07	Decision Unit Total for Child				1E-02
	DU 095	Resident (Adult)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						NA	Decision Unit Total for Child				NA
	DU 103	Resident (Adult)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						NA	Decision Unit Total for Child				NA
	DU 105	Resident (Adult)	Benzo(a)pyrene	1.1E-07	2.0E-10	1.6E-08	1.3E-07	Developmental	8.4E-04	3.7E-04	1.2E-04	1.3E-03
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	6.8E-07	3.7E-11	5.6E-08	7.3E-07	Developmental	8.9E-03	1.2E-04	7.4E-04	9.8E-03
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						9E-07	Decision Unit Total for Child				1E-02
	DU 115	Resident (Adult)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						NA	Decision Unit Total for Child				NA
	DU 132	Resident (Adult)	Benzo(a)pyrene	2.9E-07	5.2E-10	4.3E-08	3.4E-07	Developmental	2.2E-03	9.7E-04	3.2E-04	3.5E-03
			Benzo(b)fluoranthene	2.8E-08	5.0E-11	6.6E-09	3.5E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	2.2E-08	3.8E-11	2.6E-09	2.4E-08		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	1.8E-06	9.8E-11	1.5E-07	1.9E-06	Developmental	2.3E-02	3.2E-04	1.9E-03	2.6E-02
Benzo(b)fluoranthene			1.7E-07	9.5E-12	2.2E-08	1.9E-07		NA	NA	NA	NA	
Dibenzo(a,h)anthracene			1.3E-07	7.2E-12	8.9E-09	1.4E-07		NA	NA	NA	NA	
Lead			NA	NA	NA	NA		NA	NA	NA	NA	
Decision Unit Total						3E-06	Decision Unit Total for Child				3E-02	
DU 134	Resident (Adult)	Benzo(a)pyrene	1.3E-07	2.2E-10	1.9E-08	1.5E-07	Developmental	9.5E-04	4.2E-04	1.4E-04	1.5E-03	
		Dibenzo(a,h)anthracene	2.3E-08	4.1E-11	2.8E-09	2.6E-08		NA	NA	NA	NA	
		Lead	NA	NA	NA	NA		NA	NA	NA	NA	
	Resident (Child)	Benzo(a)pyrene	7.6E-07	4.2E-11	6.3E-08	8.3E-07	Developmental	1.0E-02	1.4E-04	8.4E-04	1.1E-02	
		Dibenzo(a,h)anthracene	1.4E-07	7.7E-12	9.4E-09	1.5E-07		NA	NA	NA	NA	
		Lead	NA	NA	NA	NA		NA	NA	NA	NA	
Decision Unit Total						1E-06	Decision Unit Total for Child				1E-02	

TABLE 9.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
Laredo AFB, Laredo, TX

Scenario Timeframe: Future Soil (0-12 ft)
Receptor Population: Resident
Receptor Age: Adult and Child
Exposure Point: All Decision Units (DU)

Exposure Medium	Decision Unit	Receptor Population	Chemical of Potential Concern	Carcinogenic Risk				Non-Carcinogenic Hazard Quotient				
				Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation (particulates or volatiles)	Dermal	Exposure Routes Total
Soil (0-12 ft)	DU 140	Resident (Adult)	Benzo(a)anthracene	2.8E-08	8.6E-09	3.6E-09	4.1E-08	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	3.0E-07	5.3E-10	4.4E-08	3.4E-07		2.2E-03	9.9E-04	3.3E-04	3.6E-03
			Benzo(b)fluoranthene	2.8E-08	5.0E-11	6.6E-09	3.5E-08		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	4.9E-08	8.6E-11	5.9E-09	5.5E-08		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)anthracene	1.7E-07	1.6E-09	1.2E-08	1.9E-07	Developmental	NA	NA	NA	NA
			Benzo(a)pyrene	1.8E-06	9.9E-11	1.5E-07	2.0E-06		2.4E-02	3.3E-04	2.0E-03	2.6E-02
			Benzo(b)fluoranthene	1.7E-07	9.4E-12	2.2E-08	1.9E-07		NA	NA	NA	NA
			Dibenzo(a,h)anthracene	3.0E-07	1.6E-11	2.0E-08	3.2E-07		NA	NA	NA	NA
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						3E-06	Decision Unit Total for Child				3E-02
	DU 143	Resident (Adult)	Benzo(a)pyrene	2.3E-08	4.0E-11	3.4E-09	2.6E-08	Developmental	1.7E-04	7.6E-05	2.5E-05	2.7E-04
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Benzo(a)pyrene	1.4E-07	7.6E-12	1.1E-08	1.5E-07	Developmental	1.8E-03	2.5E-05	1.5E-04	2.0E-03
			Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						2E-07	Decision Unit Total for Child				2E-03
	DU 176	Resident (Adult)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						NA	Decision Unit Total for Child				NA
	DU 190	Resident (Adult)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
		Resident (Child)	Lead	NA	NA	NA	NA		NA	NA	NA	NA
	Decision Unit Total						NA	Decision Unit Total for Child				NA