DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF, G-9
600 ARMY PENTAGON
WASHINGTON, DC 20310-0600

March 15, 2024

Army Environmental Division - BRAC Operations Branch

Mr. Ricardo Maestas
Acting Chief, Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

RE: Notification to Perform RCRA Facility Investigation Phase 2 Field Work at Parcel 21, Fort Wingate Depot Activity, McKinley County, New Mexico. EPA ID# NM6213820974

Dear Mr. Maestas:

The Department of the Army respectfully submits this notification of our intent to perform field work as described in the Final RCRA Facility Investigation (RFI) Phase 2 Work Plan, Parcel 21, Fort Wingate Depot Activity, New Mexico, EPA ID# NM6213820974, HWB-FWDA-12-007, approved by the New Mexico Environment Department on June 20, 2013, with the following updates:

- Section 8.0 of the RFI Phase 2 Work Plan is updated as follows:

  "All activities conducted as part of this Phase 2 RFI Work Plan will be documented in a brief Phase 2 RFI Letter Report. The final report will contain, at a minimum, a detailed schedule of completed activities, a summary of analytical data, and an evaluation of data comparing results to NMED's Risk Assessment Guidance for Site Investigation and Remediation, dated November 2022 (NMED, 2022) ~~February 2012 (NMED, 2012c).~~"

- In accordance with the current NMED Risk Assessment Guidance for Site Investigation and Remediation, dated November 2022, soil screening criteria have changed since the RFI Phase 2 Work Plan was approved in 2013. The most current screening levels are attached (Table 1).

- To address Comment 6 from NMED's notice of Approval with Modifications for the Final Northern Area Groundwater RCRA Facility Investigation Report, Revision 3, dated October 19, 2023, a soil boring will be advanced at the nearest accessible location from well TMW57 to collect soil samples for total and hexavalent chromium analysis from depths of 0-0.5 feet (ft) below ground surface (bgs),1.5-2 ft bgs and 9-10 ft bgs (see red text in revised RFI Phase 2 Work Plan Figure 3-1 and Table 3-1 attached). The Army is proposing to address this requirement in the Parcel 21 Phase 2 RFI to align with other Parcel 21 soils investigation activities.

- The schedule included in Section 9.0 of the RFI Phase 2 Work Plan will be followed upon Army notice to proceed to the contractor.

If you have any questions or require further information, please contact me at George.h.cushman.civ@army.mil, 703-455-3234 (Temporary Home Office, preferred), 703-608-2245 (Mobile) or Cheryl.a.frischkorn.civ@army.mil, at 703-624-6429 (Mobile).

Sincerely,

George H. Cushman IV

George H. Cushman IV
BRAC Environmental Coordinator
Fort Wingate Depot Activity
BRAC Operations Branch
Environmental Division

Enclosures

CF:

Neelam Dhawan, NMED, HWB
Ben Wear, NMED, HWB
Michiya Suzuki, NMED, HWB
Dale Thrush, U.S. EPA Region 6
Laurie King, U.S. EPA Region 6
Ian Thomas, BRAC Ops
Cheryl Frischkorn, BRAC Ops
Alan Soicher, USACE
Ben Moayyad, USACE
Douglas Hickman, SW BIA
George Padilla, BIA, NRO
Sharlene Begay-Platero, Navajo Nation
Timothy Trimble, Zuni Tribe
Admin Record, NM / Ohio

Enclosed Attachments:
Table 1. Human Health Screening Levels in Soil
Table 3-1. Summary of Samples to be Collected at SWMU 2 – Building 515
Figure 3-1. Phase 2 Sample Locations, SWMU 2 - Building 515

Table 1. Human Health Screening Levels in Soil

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Background Value (2)	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact (3)						EPA-RSL Table Human Health Screening Levels Direct Contact (4)			
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial	
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1
TAL Metals															
Aluminum	-	SW6020B	7429-90-5	mg/kg	23,340	NS	78000	NS	1290000	NS	41400	-	-	-	-
Antimony	-	SW6020B	7440-36-0	mg/kg	0.23	NS	31.3	NS	519	NS	142	-	-	-	-
Arsenic	-	SW6020B	7440-38-2	mg/kg	5.60	7.07	13.0	35.9	208	216	41.2	-	-	-	-
Barium	-	SW6020B	7440-39-3	mg/kg	482	NS	15600	NS	255000	NS	4390	-	-	-	-
Beryllium	-	SW6020B	7440-41-7	mg/kg	1.49	64400	156	313000	2580	2710	148	-	-	-	-
Cadmium	-	SW6020B	7440-43-9	mg/kg	0.224	85900	70.5	417000	1110	3610	72.1	-	-	-	-
Calcium	-	SW6020B	7440-70-2	mg/kg	91,760	NS	13000000	NS	32400000	NS	8850000	-	-	-	-
Cobalt	-	SW6020B	7440-48-4	mg/kg	6.82	17200	23.4	83400	388	722	36.7	-	-	-	-
Copper	-	SW6020B	7440-50-8	mg/kg	18.4	NS	3130	NS	51900	NS	14200	-	-	-	-
Iron	-	SW6020B	7439-89-6	mg/kg	22,660	NS	54800	NS	908000	NS	248000	-	-	-	-
Lead(9)	-	SW6020B	7439-92-1	mg/kg	12.4	NS	NS	NS	NS	NS	NS	NS	200	NS	800
Magnesium(10)	-	SW6020B	7439-95-4	mg/kg	8,170	NS	15600000	NS	5680000	NS	1550000	-	-	-	-
Manganese	-	SW6020B	7439-96-5	mg/kg	1,058	NS	10500	NS	160000	NS	464	-	-	-	-
Mercury	-	SW7471B	7439-97-6	mg/kg	0.0300	NS	23.8	NS	112	NS	20.7	-	-	-	-
Nickel	-	SW6020B	7440-02-0	mg/kg	19.5	595000	1560	2890000	25700	25000	753	-	-	-	-
Potassium	-	SW3050B/SW6020B	7440-09-7	mg/kg	3,950	NS	15600000	NS	76200000	NS	20800000	-	-	-	-
Selenium	-	SW3050B/SW6020B	7782-49-2	mg/kg	0.513	NS	391	NS	6490	NS	1750	-	-	-	-
Silver	-	SW3050B/SW6020B	7440-22-4	mg/kg	0.130	NS	391	NS	6490	NS	1770	-	-	-	-
Sodium	-	SW3050B/SW6020B	7440-23-5	mg/kg	2,526	NS	7820000	NS	37300000	NS	10200000	-	-	-	-
Thallium	-	SW3050B/SW6020B	7440-28-0	mg/kg	0.213	NS	0.782	NS	13.0	NS	3.54	-	-	-	-
Total Chromium	-	SW3050B/SW6020B	7440-47-3	mg/kg	18.1	96.6	45200	505	314000	468	134	-	-	-	-
Vanadium	-	SW3050B/SW6020B	7440-62-2	mg/kg	27.2	NS	394	NS	6530	NS	614	-	-	-	-
Zinc	-	SW3050B/SW6020B	7440-66-6	mg/kg	49.2	NS	23500	NS	389000	NS	106000	-	-	-	-
Semi-Volatile Organic Compounds															
1,2,4-Trichlorobenzene	-	SW8270E	120-82-1	mg/kg	N/A	240	82.9	1250	423	8540	79.1	-	-	-	-
1,2-Dichlorobenzene	-	SW8270E	95-50-1	mg/kg	N/A	NS	2150	NS	13000	NS	2500	-	-	-	-
1,4-Dichlorobenzene	-	SW8270E	106-46-7	mg/kg	N/A	1290	5480	6730	90800	45900	24800	-	-	-	-
2,4,5-Trichlorophenol	-	SW8270E	95-95-4	mg/kg	N/A	NS	6160	NS	91600	NS	26900	-	-	-	-
2,4,6-Trichlorophenol	-	SW8270E	88-06-2	mg/kg	N/A	484	61.6	2330	916	17000	269	-	-	-	-
2,4-Dichlorophenol	-	SW8270E	120-83-2	mg/kg	N/A	NS	185	NS	2750	NS	807	-	-	-	-
2,4-Dimethylphenol	-	SW8270E	105-67-9	mg/kg	N/A	NS	1230	NS	18300	NS	5380	-	-	-	-
2,4-Dinitrophenol	-	SW8270E	51-28-5	mg/kg	N/A	NS	123	NS	1830	NS	538	-	-	-	-
2,4-Dinitrotoluene	-	SW8270E	121-14-2	mg/kg	N/A	17.1	123	82.3	1820	600	536	-	-	-	-
2,6-Dinitrotoluene	-	SW8270E	606-20-2	mg/kg	N/A	3.56	18.5	17.2	276	165	80.9	-	-	-	-
2-Chloronaphthalene	-	SW8270E	91-58-7	mg/kg	N/A	NS	6260	NS	104000	NS	28300	-	-	-	-
2-Chlorophenol	-	SW8270E	95-57-8	mg/kg	N/A	NS	391	NS	6490	NS	1770	-	-	-	-
2-Methylphenol	-	SW8270E	95-48-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	3200	NS	41000
2-Nitroaniline	-	SW8270E	88-74-4	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	630	NS	8000
2-Nitrophenol	-	SW8270E	88-75-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	-	SW8270E	91-94-1	mg/kg	N/A	11.8	NS	57.0	NS	410	NS	-	-	-	-
3-Nitroaniline	4-Nitroaniline	SW8270E	99-09-2	mg/kg	N/A	NS	NS	NS	NS	NS	NS	270	250	1100	3300
4,6-Dinitro-2-Methylphenol	-	SW8270E	534-52-1	mg/kg	N/A	NS	4.93	NS	73.3	NS	21.5	-	-	-	-
4-Bromophenyl-phenyl ether	-	SW8270E	101-55-3	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-Methylphenol	-	SW8270E	59-50-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	6300	NS	82000
4-Chloroaniline	-	SW8270E	106-47-8	mg/kg	N/A	NS	NS	NS	NS	NS	NS	27	32	110	410
4-Chlorophenyl-phenyl ether	-	SW8270E	7005-72-3	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methylphenol	-	SW8270E	106-44-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	1300	NS	16000
4-Nitroaniline	-	SW8270E	100-01-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	270	250	1100	3300

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Lowest Human Health Screening Level Direct Contact (5)	Lowest Human Health Screening Level Direct Contact Source (5)	Human Health Screening Levels - Groundwater Protection			Achievable Laboratory Limits		
							NMED Table A-3 and Table 6-4 Risk-based SSL (6)	NMED Table A-3 NMGW/MCL based SSL (6)	EPA-RSL Calculator Risk-based SSL (7)	LOQ	LOD	DL
							DAF = 20	DAF = 20	adjusted to DAF = 20			
TAL Metals												
Aluminum	-	SW6020B	7429-90-5	mg/kg	41400	NMED SSL	597000	NS	-	0.011	0.01	0.00377
Antimony	-	SW6020B	7440-36-0	mg/kg	31.3	NMED SSL	6.56	5.42	-	0.0002	0.00012	0.0000376
Arsenic	-	SW6020B	7440-38-2	mg/kg	7.07	NMED SSL	0.499	5.83	-	0.0006	0.0002	0.0000506
Barium	-	SW6020B	7440-39-3	mg/kg	4390	NMED SSL	2700	1650	-	0.0004	0.0002	0.0000723
Beryllium	-	SW6020B	7440-41-7	mg/kg	148	NMED SSL	196	63.2	-	0.0001	0.00008	0.0000225
Cadmium	-	SW6020B	7440-43-9	mg/kg	70.5	NMED SSL	9.39	7.52	-	0.0001	0.00006	0.0000203
Calcium	-	SW6020B	7440-70-2	mg/kg	8850000	NMED SSL	NS	NS	NS	0.05	0.025	0.0089
Cobalt	-	SW6020B	7440-48-4	mg/kg	23.4	NMED SSL	5.40	NS	-	0.0001	0.000025	0.00000663
Copper	-	SW6020B	7440-50-8	mg/kg	3130	NMED SSL	556	915	-	0.0006	0.00045	0.0002
Iron	-	SW6020B	7439-89-6	mg/kg	54800	NMED SSL	6960	NS	-	0.015	0.014	0.00394
Lead(9)	-	SW6020B	7439-92-1	mg/kg	200	EPA RSL	NS	270	-	0.0004	0.00012	0.0000385
Magnesium(10)	-	SW6020B	7439-95-4	mg/kg	1550000	NMED SSL	NS	NS	NS	0.05	0.01	0.0025
Manganese	-	SW6020B	7439-96-5	mg/kg	464	NMED SSL	2630	NS	-	0.0005	0.0003	0.0000961
Mercury	-	SW7471B	7439-97-6	mg/kg	20.7	NMED SSL	0.654	2.09	-	0.000017	0.0000133	0.00000553
Nickel	-	SW6020B	7440-02-0	mg/kg	753	NMED SSL	485	NS	-	0.0006	0.00035	0.000169
Potassium	-	SW3050B/SW6020B	7440-09-7	mg/kg	15600000	NMED SSL	NS	NS	NS	0.025	0.019	0.00529
Selenium	-	SW3050B/SW6020B	7782-49-2	mg/kg	391	NMED SSL	10.2	5.17	-	0.0005	0.00012	0.0000347
Silver	-	SW3050B/SW6020B	7440-22-4	mg/kg	391	NMED SSL	13.8	NS	-	0.0001	0.00002	0.00000539
Sodium	-	SW3050B/SW6020B	7440-23-5	mg/kg	7820000	NMED SSL	NS	NS	NS	0.04	0.036	0.00904
Thallium	-	SW3050B/SW6020B	7440-28-0	mg/kg	0.782	NMED SSL	0.281	2.85	-	0.0001	0.00006	0.0000177
Total Chromium	-	SW3050B/SW6020B	7440-47-3	mg/kg	96.6	NMED SSL	205000	3600	-	0.0006	0.0002	0.0000964
Vanadium	-	SW3050B/SW6020B	7440-62-2	mg/kg	394	NMED SSL	1260	NS	-	0.0005	0.0003	0.000104
Zinc	-	SW3050B/SW6020B	7440-66-6	mg/kg	23500	NMED SSL	7410	NS	-	0.002	0.0014	0.000688
Semi-Volatile Organic Compounds												
1,2,4-Trichlorobenzene	-	SW8270E	120-82-1	mg/kg	79.1	NMED SSL	0.176	3.10	-	0.005	0.0016	0.00073
1,2-Dichlorobenzene	-	SW8270E	95-50-1	mg/kg	2150	NMED SSL	4.58	9.08	-	0.005	0.004	0.00187
1,4-Dichlorobenzene	-	SW8270E	106-46-7	mg/kg	1290	NMED SSL	0.0720	1.12	-	0.005	0.0008	0.000245
2,4,5-Trichlorophenol	-	SW8270E	95-95-4	mg/kg	6160	NMED SSL	66.2	NS	-	0.33	0.033	0.01
2,4,6-Trichlorophenol	-	SW8270E	88-06-2	mg/kg	61.6	NMED SSL	0.674	NS	-	0.33	0.033	0.01
2,4-Dichlorophenol	-	SW8270E	120-83-2	mg/kg	185	NMED SSL	0.825	NS	-	0.33	0.033	0.01
2,4-Dimethylphenol	-	SW8270E	105-67-9	mg/kg	1230	NMED SSL	6.45	NS	-	0.33	0.133	0.066
2,4-Dinitrophenol	-	SW8270E	51-28-5	mg/kg	123	NMED SSL	0.669	NS	-	1.6	1	0.333
2,4-Dinitrotoluene	-	SW8270E	121-14-2	mg/kg	17.1	NMED SSL	0.0492	NS	-	0.0001	0.00004	0.0000147
2,6-Dinitrotoluene	-	SW8270E	606-20-2	mg/kg	3.56	NMED SSL	0.0102	NS	-	0.0001	0.00004	0.0000191
2-Chloronaphthalene	-	SW8270E	91-58-7	mg/kg	6260	NMED SSL	57.0	NS	-	0.33	0.033	0.01
2-Chlorophenol	-	SW8270E	95-57-8	mg/kg	391	NMED SSL	1.15	NS	-	0.33	0.067	0.021
2-Methylphenol	-	SW8270E	95-48-7	mg/kg	3200	EPA RSL	NS	NS	15.1	0.33	0.033	0.013
2-Nitroaniline	-	SW8270E	88-74-4	mg/kg	630	EPA RSL	NS	NS	1.60	1.6	0.133	0.05
2-Nitrophenol	-	SW8270E	88-75-5	mg/kg	NS		NS	NS	NS	0.33	0.033	0.01
3,3'-Dichlorobenzidine	-	SW8270E	91-94-1	mg/kg	11.8	NMED SSL	0.124	NS	-	1.6	0.267	0.09
3-Nitroaniline	4-Nitroaniline	SW8270E	99-09-2	mg/kg	250	EPA RSL	NS	NS	0.316	1.6	0.267	0.073
4,6-Dinitro-2-Methylphenol	-	SW8270E	534-52-1	mg/kg	4.93	NMED SSL	0.0398	NS	-	1.6	1	0.33
4-Bromophenyl-phenyl ether	-	SW8270E	101-55-3	mg/kg	NS		NS	NS	NS	0.33	0.067	0.019
4-Chloro-3-Methylphenol	-	SW8270E	59-50-7	mg/kg	6300	EPA RSL	NS	NS	34.3	0.33	0.067	0.0248
4-Chloroaniline	-	SW8270E	106-47-8	mg/kg	27.0	EPA RSL	NS	NS	0.0311	0.33	0.267	0.0819
4-Chlorophenyl-phenyl ether	-	SW8270E	7005-72-3	mg/kg	NS		NS	NS	NS	0.33	0.067	0.021
4-Methylphenol	-	SW8270E	106-44-5	mg/kg	1300	EPA RSL	NS	NS	5.94	0.33	0.067	0.033
4-Nitroaniline	-	SW8270E	100-01-6	mg/kg	250	EPA RSL	NS	NS	0.316	1.6	0.267	0.0725

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Background Value (2)	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact (3)						EPA-RSL Table Human Health Screening Levels Direct Contact (4)			
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial	
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1
Semi-Volatile Organic Compounds (Continued)															
4-Nitrophenol	-	SW8270E	100-02-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bis(2-Chloroethoxy)Methane	-	SW8270E	111-91-1	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	190	NS	2500
Bis(2-Chloroethyl)Ether	-	SW8270E	111-44-4	mg/kg	N/A	3.11	NS	15.7	NS	1.95	NS	-	-	-	-
Bis(2-Chloroisopropyl)Ether	-	SW8270E	108-60-1	mg/kg	N/A	99.3	NS	519	NS	3540	NS	-	-	-	-
Bis(2-Ethylhexyl)Phthalate	-	SW8270E	117-81-7	mg/kg	N/A	380	1230	1830	18300	13400	5380	-	-	-	-
Butylbenzylphthalate	-	SW8270E	85-68-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	2900	13000	12000	160000
Carbazole	Fluorene	SW8270E	86-74-8	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-
Dibenzofuran	-	SW8270E	132-64-9	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	78	NS	1200
Diethylphthalate	-	SW8270E	84-66-2	mg/kg	N/A	NS	49300	NS	733000	NS	215000	-	-	-	-
Dimethylphthalate	-	SW8270E	131-11-3	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-N-Butylphthalate	-	SW8270E	84-74-2	mg/kg	N/A	NS	6160	NS	91600	NS	26900	-	-	-	-
Di-n-Octylphthalate	-	SW8270E	117-84-0	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	630	NS	8200
Hexachlorobenzene	-	SW8270E	118-74-1	mg/kg	N/A	3.33	49.3	16.0	733	117	215	-	-	-	-
Hexachlorobutadiene	-	SW8270E	87-68-3	mg/kg	N/A	68.3	61.6	52.1	916	2400	269	-	-	-	-
Hexachloroethane	-	SW8270E	67-72-1	mg/kg	N/A	133	43.1	641	641	4670	188	-	-	-	-
Isophorone	-	SW8270E	78-59-1	mg/kg	N/A	5610	12300	27000	183000	198000	53700	-	-	-	-
Nitrobenzene	-	SW8270E	98-95-3	mg/kg	N/A	60.4	131	293	1540	1350	353	-	-	-	-
N-Nitroso-Di-N-Propylamine	-	SW8270E	621-64-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	0.78	NS	3.3	NS
N-Nitrosodiphenylamine	-	SW8270E	86-30-6	mg/kg	N/A	1090	NS	5240	NS	37900	NS	-	-	-	-
Pentachlorophenol	-	SW8270E	87-86-5	mg/kg	N/A	9.85	234	44.5	3180	346	989	-	-	-	-
Phenol	-	SW8270E	108-95-2	mg/kg	N/A	NS	18500	NS	275000	NS	77400	-	-	-	-
Polycyclic Aromatic Hydrocarbons															
2-Methylnaphthalene	-	SW8270E	91-57-6	mg/kg	N/A	NS	232	NS	3370	NS	1000	-	-	-	-
Acenaphthene	-	SW8270E	83-32-9	mg/kg	N/A	NS	3480	NS	50500	NS	15100	-	-	-	-
Acenaphthylene	Pyrene	SW8270E	208-96-8	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-
Anthracene	-	SW8270E	120-12-7	mg/kg	N/A	NS	17400	NS	253000	NS	75300	-	-	-	-
Benzo(a)anthracene	-	SW8270E	56-55-3	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-
Benzo(a)pyrene	-	SW8270E	50-32-8	mg/kg	N/A	1.12	17.4	23.6	251	173	15.0	-	-	-	-
Benzo(b)fluoranthene	-	SW8270E	205-99-2	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-
Benzo(k)fluoranthene	-	SW8270E	207-08-9	mg/kg	N/A	15.3	NS	323	NS	2310	NS	-	-	-	-
Benzo(g,h,i)perylene	Pyrene	SW8270E	191-24-2	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-
Chrysene	-	SW8270E	218-01-9	mg/kg	N/A	153	NS	3230	NS	23100	NS	-	-	-	-
Dibenz(a,h)anthracene	-	SW8270E	53-70-3	mg/kg	N/A	0.153	NS	3.23	NS	24.0	NS	-	-	-	-
Fluoranthene	-	SW8270E	206-44-0	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-
Fluorene	-	SW8270E	86-73-7	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-
Indeno(1,2,3-cd)pyrene	-	SW8270E	193-39-5	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-
Naphthalene	-	SW8270E	91-20-3	mg/kg	N/A	22.6	162	108	843	633	159	-	-	-	-
Phenanthrene	-	SW8270E	85-01-8	mg/kg	N/A	NS	1850	NS	27500	NS	8070	-	-	-	-
Pyrene	-	SW8270E	129-00-0	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-
2-Methylnaphthalene	-	SW8270E SIM	91-57-6	mg/kg	N/A	NS	232	NS	3370	NS	1000	-	-	-	-
Acenaphthene	-	SW8270E SIM	83-32-9	mg/kg	N/A	NS	3480	NS	50500	NS	15100	-	-	-	-
Acenaphthylene	Pyrene	SW8270E SIM	208-96-8	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-
Anthracene	-	SW8270E SIM	120-12-7	mg/kg	N/A	NS	17400	NS	253000	NS	75300	-	-	-	-
Benzo(a)anthracene	-	SW8270E SIM	56-55-3	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-
Benzo(a)pyrene	-	SW8270E SIM	50-32-8	mg/kg	N/A	1.12	17.4	23.6	251	173	15.0	-	-	-	-
Benzo(b)fluoranthene	-	SW8270E SIM	205-99-2	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-
Benzo(k)fluoranthene	-	SW8270E SIM	207-08-9	mg/kg	N/A	15.3	NS	323	NS	2310	NS	-	-	-	-
Benzo(g,h,i)perylene	Pyrene	SW8270E SIM	191-24-2	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-
Chrysene	-	SW8270E SIM	218-01-9	mg/kg	N/A	153	NS	3230	NS	23100	NS	-	-	-	-

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Lowest Human Health Screening Level Direct Contact (5)	Lowest Human Health Screening Level Direct Contact Source (5)	Human Health Screening Levels - Groundwater Protection			Achievable Laboratory Limits		
							NMED Table A-3 and Table 6-4 Risk-based SSL (6)	NMED Table A-3 NMGW/MCL based SSL (6)	EPA-RSL Calculator Risk-based SSL (7)	LOQ	LOD	DL
							DAF = 20	DAF = 20	adjusted to DAF = 20			
Semi-Volatile Organic Compounds (Continued)												
4-Nitrophenol	-	SW8270E	100-02-7	mg/kg	NS		NS	NS	NS	1.6	0.267	0.097
Bis(2-Chloroethoxy)Methane	-	SW8270E	111-91-1	mg/kg	190	EPA RSL	NS	NS	0.270	0.33	0.067	0.023
Bis(2-Chloroethyl)Ether	-	SW8270E	111-44-4	mg/kg	1.95	NMED SSL	0.000605	NS	-	0.33	0.033	0.0166
Bis(2-Chloroisopropyl)Ether	-	SW8270E	108-60-1	mg/kg	99.3	NMED SSL	0.0475	NS	-	0.33	0.067	0.023
Bis(2-Ethylhexyl)Phthalate	-	SW8270E	117-81-7	mg/kg	380	NMED SSL	200	21.5	-	0.33	0.133	0.046
Butylbenzylphthalate	-	SW8270E	85-68-7	mg/kg	2900	EPA RSL	NS	NS	47.3	0.33	0.133	0.043
Carbazole	Fluorene	SW8270E	86-74-8	mg/kg	2320	NMED SSL	80.0	NS	-	0.33	0.133	0.036
Dibenzofuran	-	SW8270E	132-64-9	mg/kg	78.0	EPA RSL	NS	NS	2.91	0.33	0.067	0.02
Diethylphthalate	-	SW8270E	84-66-2	mg/kg	49300	NMED SSL	97.9	NS	-	0.66	0.067	0.026
Dimethylphthalate	-	SW8270E	131-11-3	mg/kg	NS		NS	NS	NS	0.33	0.067	0.023
Di-N-Butylphthalate	-	SW8270E	84-74-2	mg/kg	6160	NMED SSL	33.8	NS	-	0.33	0.067	0.029
Di-n-Octylphthalate	-	SW8270E	117-84-0	mg/kg	630	EPA RSL	NS	NS	1,130	0.33	0.133	0.0405
Hexachlorobenzene	-	SW8270E	118-74-1	mg/kg	3.33	NMED SSL	0.0185	0.189	-	0.33	0.067	0.029
Hexachlorobutadiene	-	SW8270E	87-68-3	mg/kg	52.1	NMED SSL	0.0413	NS	-	0.005	0.004	0.00217
Hexachloroethane	-	SW8270E	67-72-1	mg/kg	43.1	NMED SSL	0.0320	NS	-	0.33	0.067	0.0213
Isophorone	-	SW8270E	78-59-1	mg/kg	5610	NMED SSL	4.23	NS	-	0.33	0.067	0.017
Nitrobenzene	-	SW8270E	98-95-3	mg/kg	60.4	NMED SSL	0.0144	NS	-	0.0003	0.0002	0.000085
N-Nitroso-Di-N-Propylamine	-	SW8270E	621-64-7	mg/kg	0.780	EPA RSL	NS	NS	0.00162	0.33	0.167	0.068
N-Nitrosodiphenylamine	-	SW8270E	86-30-6	mg/kg	1090	NMED SSL	10.0	NS	-	0.33	0.067	0.021
Pentachlorophenol	-	SW8270E	87-86-5	mg/kg	9.85	NMED SSL	0.0629	0.152	-	1.6	1	0.33
Phenol	-	SW8270E	108-95-2	mg/kg	18500	NMED SSL	52.3	NS	-	0.33	0.067	0.018
Polycyclic Aromatic Hydrocarbons												
2-Methylnaphthalene	-	SW8270E	91-57-6	mg/kg	232	NMED SSL	2.76	NS	-	0.33	0.067	0.019
Acenaphthene	-	SW8270E	83-32-9	mg/kg	3480	NMED SSL	82.5	0.0309	-	0.33	0.033	0.0103
Acenaphthylene	Pyrene	SW8270E	208-96-8	mg/kg	1740	NMED SSL	192	NS	-	0.33	0.267	0.0821
Anthracene	-	SW8270E	120-12-7	mg/kg	17400	NMED SSL	851	NS	-	0.33	0.067	0.017
Benzo(a)anthracene	-	SW8270E	56-55-3	mg/kg	1.53	NMED SSL	0.637	NS	-	0.33	0.067	0.02
Benzo(a)pyrene	-	SW8270E	50-32-8	mg/kg	1.12	NMED SSL	4.42	3.53	-	0.33	0.067	0.02
Benzo(b)fluoranthene	-	SW8270E	205-99-2	mg/kg	1.53	NMED SSL	6.17	NS	-	0.33	0.067	0.0262
Benzo(k)fluoranthene	-	SW8270E	207-08-9	mg/kg	15.3	NMED SSL	60.5	NS	-	0.33	0.133	0.04
Benzo(g,h,i)perylene	Pyrene	SW8270E	191-24-2	mg/kg	1740	NMED SSL	192	NS	-	0.33	0.033	0.016
Chrysene	-	SW8270E	218-01-9	mg/kg	153	NMED SSL	186	NS	-	0.33	0.067	0.027
Dibenz(a,h)anthracene	-	SW8270E	53-70-3	mg/kg	0.153	NMED SSL	1.97	NS	-	0.33	0.067	0.019
Fluoranthene	-	SW8270E	206-44-0	mg/kg	2320	NMED SSL	1340	NS	-	0.33	0.133	0.036
Fluorene	-	SW8270E	86-73-7	mg/kg	2320	NMED SSL	80.0	NS	-	0.33	0.067	0.018
Indeno(1,2,3-cd)pyrene	-	SW8270E	193-39-5	mg/kg	1.53	NMED SSL	20.1	NS	-	0.33	0.067	0.022
Naphthalene	-	SW8270E	91-20-3	mg/kg	22.6	NMED SSL	0.0583	NS	-	0.0067	0.005	0.00331
Phenanthrene	-	SW8270E	85-01-8	mg/kg	1850	NMED SSL	85.9	NS	-	0.33	0.067	0.017
Pyrene	-	SW8270E	129-00-0	mg/kg	1740	NMED SSL	192	NS	-	0.4	0.033	0.0121
2-Methylnaphthalene	-	SW8270E SIM	91-57-6	mg/kg	232	NMED SSL	2.76	NS	-	0.01	0.000618	0.002
Acenaphthene	-	SW8270E SIM	83-32-9	mg/kg	3480	NMED SSL	82.5	0.0309	-	0.01	0.000924	0.002
Acenaphthylene	Pyrene	SW8270E SIM	208-96-8	mg/kg	1740	NMED SSL	192	NS	-	0.01	0.000775	0.002
Anthracene	-	SW8270E SIM	120-12-7	mg/kg	17400	NMED SSL	851	NS	-	0.01	0.00144	0.00433
Benzo(a)anthracene	-	SW8270E SIM	56-55-3	mg/kg	1.53	NMED SSL	0.637	NS	-	0.01	0.0018	0.00433
Benzo(a)pyrene	-	SW8270E SIM	50-32-8	mg/kg	1.12	NMED SSL	4.42	3.53	-	0.01	0.00148	0.00433
Benzo(b)fluoranthene	-	SW8270E SIM	205-99-2	mg/kg	1.53	NMED SSL	6.17	NS	-	0.01	0.0024	0.00667
Benzo(k)fluoranthene	-	SW8270E SIM	207-08-9	mg/kg	15.3	NMED SSL	60.5	NS	-	0.01	0.002	0.00433
Benzo(g,h,i)perylene	Pyrene	SW8270E SIM	191-24-2	mg/kg	1740	NMED SSL	192	NS	-	0.01	0.0022	0.00667
Chrysene	-	SW8270E SIM	218-01-9	mg/kg	153	NMED SSL	186	NS	-	0.01	0.002	0.00433

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Background Value (2)	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact (3)						EPA-RSL Table Human Health Screening Levels Direct Contact (4)			
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial	
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1
Polycyclic Aromatic Hydrocarbons (Continued)															
Dibenz(a,h)anthracene	-	SW8270E SIM	53-70-3	mg/kg	N/A	0.153	NS	3.23	NS	24.0	NS	-	-	-	-
Fluoranthene	-	SW8270E SIM	206-44-0	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-
Fluorene	-	SW8270E SIM	86-73-7	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-
Indeno(1,2,3-cd)pyrene	-	SW8270E SIM	193-39-5	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-
Naphthalene	-	SW8270E SIM	91-20-3	mg/kg	N/A	22.6	162	108	843	633	159	-	-	-	-
Phenanthrene	-	SW8270E SIM	85-01-8	mg/kg	N/A	NS	1850	NS	27500	NS	8070	-	-	-	-
Pyrene	-	SW8270E SIM	129-00-0	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-
Volatile Organic Compounds															
1,1,1,2-Tetrachloroethane	-	SW8260D	630-20-6	mg/kg	N/A	28.1	2350	137	38900	659	10600	-	-	-	-
1,1,1-Trichloroethane	-	SW8260D	71-55-6	mg/kg	N/A	NS	14400	NS	72500	NS	13600	-	-	-	-
1,1,2,2-Tetrachloroethane	-	SW8260D	79-34-5	mg/kg	N/A	7.98	1560	39.4	26000	197	7080	-	-	-	-
1,1,2-Trichloroethane	-	SW8260D	79-00-5	mg/kg	N/A	18.8	2.61	92.1	12.4	4300	2.30	-	-	-	-
1,1-Dichloroethane	-	SW8260D	75-34-3	mg/kg	N/A	78.6	15600	383	260000	1820	70800	-	-	-	-
1,1-Dichloroethene	-	SW8260D	75-35-4	mg/kg	N/A	NS	440	NS	2260	NS	424	-	-	-	-
1,1-Dichloropropene	1,3-Dichloropropene	SW8260D	563-58-6	mg/kg	N/A	29.3	141	146	695	781	130	-	-	-	-
1,2,3-Trichlorobenzene	-	SW8260D	87-61-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	63	NS	930
1,2,3-Trichloropropane	-	SW8260D	96-18-4	mg/kg	N/A	0.0510	7.09	1.21	34.0	8.26	6.31	-	-	-	-
1,2,4-Trichlorobenzene	-	SW8260D	120-82-1	mg/kg	N/A	240	82.9	1250	423	8540	79.1	-	-	-	-
1,2,4-Trimethylbenzene	-	SW8260D	95-63-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	300	NS	1800
1,2-Dibromo-3-Chloropropane	-	SW8260D	96-12-8	mg/kg	N/A	0.0858	5.88	1.18	41.1	5.53	8.29	-	-	-	-
1,2-Dibromoethane	-	SW8260D	106-93-4	mg/kg	N/A	0.672	135	3.31	738	16.3	140	-	-	-	-
1,2-Dichlorobenzene	-	SW8260D	95-50-1	mg/kg	N/A	NS	2150	NS	13000	NS	2500	-	-	-	-
1,2-Dichloroethane	-	SW8260D	107-06-2	mg/kg	N/A	8.32	55.6	40.7	286	195	53.8	-	-	-	-
1,2-Dichloropropane	-	SW8260D	78-87-5	mg/kg	N/A	17.8	29.0	86.8	137	415	25.4	-	-	-	-
1,3,5-Trimethylbenzene	-	SW8260D	108-67-8	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	270	NS	1500
1,3-Dichloropropane	-	SW8260D	142-28-9	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	1600	NS	23000
1,3-Dichlorobenzene	1,4-Dichlorobenzene	SW8260D	541-73-1	mg/kg	N/A	1290	5480	6730	90800	45900	24800	-	-	-	-
1,4-Dichlorobenzene	-	SW8260D	106-46-7	mg/kg	N/A	1290	5480	6730	90800	45900	24800	-	-	-	-
2,2-Dichloropropane	1,2-Dichloropropane	SW8260D	594-20-7	mg/kg	N/A	17.8	29.0	86.8	137	415	25.4	-	-	-	-
2-Butanone (MEK)	-	SW8260D	78-93-3	mg/kg	N/A	NS	37400	NS	411000	NS	91700	-	-	-	-
2-Chlorotoluene	-	SW8260D	95-49-8	mg/kg	N/A	NS	1560	NS	26000	NS	7080	-	-	-	-
2-Hexanone	-	SW8260D	591-78-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	200	NS	1300
4-Chlorotoluene	-	SW8260D	106-43-4	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	1600	NS	23000
4-Methyl-2-Pentanone (MIBK)	-	SW8260D	108-10-1	mg/kg	N/A	NS	5810	NS	81600	NS	20200	-	-	-	-
Acetone	-	SW8260D	67-64-1	mg/kg	N/A	NS	66300	NS	960000	NS	242000	-	-	-	-
Benzene	-	SW8260D	71-43-2	mg/kg	N/A	17.8	114	87.2	729	423	142	-	-	-	-
Bromobenzene	-	SW8260D	108-86-1	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	290	NS	1800
Bromochloromethane	-	SW8260D	74-97-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	150	NS	630
Bromodichloromethane	-	SW8260D	75-27-4	mg/kg	N/A	6.19	1560	30.2	26000	143	7080	-	-	-	-
Bromoform	-	SW8260D	75-25-2	mg/kg	N/A	674	1230	1760	18300	23700	5380	-	-	-	-
Bromomethane	-	SW8260D	74-83-9	mg/kg	N/A	NS	17.7	NS	94.5	NS	17.9	-	-	-	-
Carbon Disulfide	-	SW8260D	75-15-0	mg/kg	N/A	NS	1550	NS	8540	NS	1620	-	-	-	-
Carbon Tetrachloride	-	SW8260D	56-23-5	mg/kg	N/A	10.7	144	52.5	1020	252	202	-	-	-	-
Chlorobenzene	-	SW8260D	108-90-7	mg/kg	N/A	NS	378	NS	2160	NS	412	-	-	-	-
Chloroethane	-	SW8260D	75-00-3	mg/kg	N/A	NS	19000	NS	89500	NS	16600	-	-	-	-
Chloroform	-	SW8260D	67-66-3	mg/kg	N/A	5.90	306	28.7	2000	134	391	-	-	-	-
Chloromethane	-	SW8260D	74-87-3	mg/kg	N/A	41.1	268	201	1260	956	235	-	-	-	-
cis-1,2-Dichloroethene	-	SW8260D	156-59-2	mg/kg	N/A	NS	156	NS	2600	NS	708	-	-	-	-
cis-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-01-5	mg/kg	N/A	29.3	141	146	695	781	130	-	-	-	-

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Lowest Human Health Screening Level Direct Contact (5)	Lowest Human Health Screening Level Direct Contact Source (5)	Human Health Screening Levels - Groundwater Protection			Achievable Laboratory Limits		
							NMED Table A-3 and Table 6-4 Risk-based SSL (6)	NMED Table A-3 NMGW/MCL based SSL (6)	EPA-RSL Calculator Risk-based SSL (7)	LOQ	LOD	DL
							DAF = 20	DAF = 20	adjusted to DAF = 20			
Polycyclic Aromatic Hydrocarbons (Continued)												
Dibenz(a,h)anthracene	-	SW8270E SIM	53-70-3	mg/kg	0.153	NMED SSL	1.97	NS	-	0.01	0.0026	0.00667
Fluoranthene	-	SW8270E SIM	206-44-0	mg/kg	2320	NMED SSL	1340	NS	-	0.01	0.002	0.00433
Fluorene	-	SW8270E SIM	86-73-7	mg/kg	2320	NMED SSL	80.0	NS	-	0.01	0.00094	0.00267
Indeno(1,2,3-cd)pyrene	-	SW8270E SIM	193-39-5	mg/kg	1.53	NMED SSL	20.1	NS	-	0.01	0.0022	0.00667
Naphthalene	-	SW8270E SIM	91-20-3	mg/kg	22.6	NMED SSL	0.0583	NS	-	0.01	0.000652	0.002
Phenanthrene	-	SW8270E SIM	85-01-8	mg/kg	1850	NMED SSL	85.9	NS	-	0.01	0.0022	0.00667
Pyrene	-	SW8270E SIM	129-00-0	mg/kg	1740	NMED SSL	192	NS	-	0.01	0.0022	0.00667
Volatile Organic Compounds												
1,1,1,2-Tetrachloroethane	-	SW8260D	630-20-6	mg/kg	28.1	NMED SSL	0.0360	NS	-	0.005	0.004	0.00222
1,1,1-Trichloroethane	-	SW8260D	71-55-6	mg/kg	13600	NMED SSL	51.1	1.28	-	0.005	0.004	0.00198
1,1,2,2-Tetrachloroethane	-	SW8260D	79-34-5	mg/kg	7.98	NMED SSL	0.00481	NS	-	0.005	0.0008	0.000285
1,1,2-Trichloroethane	-	SW8260D	79-00-5	mg/kg	2.30	NMED SSL	0.00223	0.0268	-	0.005	0.0032	0.00088
1,1-Dichloroethane	-	SW8260D	75-34-3	mg/kg	78.6	NMED SSL	0.136	NS	-	0.005	0.0008	0.00021
1,1-Dichloroethene	-	SW8260D	75-35-4	mg/kg	424	NMED SSL	1.95	0.0479	-	0.005	0.0016	0.00059
1,1-Dichloropropene	1,3-Dichloropropene	SW8260D	563-58-6	mg/kg	29.3	NMED SSL	0.0281	NS	-	0.005	0.0004	0.000164
1,2,3-Trichlorobenzene	-	SW8260D	87-61-6	mg/kg	63.0	EPA RSL	NS	NS	0.418	0.005	0.0032	0.00081
1,2,3-Trichloropropane	-	SW8260D	96-18-4	mg/kg	0.0510	NMED SSL	0.0000582	NS	-	0.005	0.0008	0.000218
1,2,4-Trichlorobenzene	-	SW8260D	120-82-1	mg/kg	79.1	NMED SSL	0.176	3.10	-	0.005	0.0016	0.00073
1,2,4-Trimethylbenzene	-	SW8260D	95-63-6	mg/kg	300	EPA RSL	NS	NS	1.62	0.005	0.004	0.00231
1,2-Dibromo-3-Chloropropane	-	SW8260D	96-12-8	mg/kg	0.0858	NMED SSL	0.0000233	0.00139	-	0.01	0.009	0.00366
1,2-Dibromoethane	-	SW8260D	106-93-4	mg/kg	0.672	NMED SSL	0.000352	0.000236	-	0.005	0.0016	0.00052
1,2-Dichlorobenzene	-	SW8260D	95-50-1	mg/kg	2150	NMED SSL	4.58	9.08	-	0.005	0.004	0.00187
1,2-Dichloroethane	-	SW8260D	107-06-2	mg/kg	8.32	NMED SSL	0.00814	0.0238	-	0.005	0.0016	0.0007
1,2-Dichloropropane	-	SW8260D	78-87-5	mg/kg	17.8	NMED SSL	0.0243	0.0277	-	0.005	0.0016	0.00055
1,3,5-Trimethylbenzene	-	SW8260D	108-67-8	mg/kg	270	EPA RSL	NS	NS	1.73	0.005	0.004	0.00242
1,3-Dichloropropane	-	SW8260D	142-28-9	mg/kg	1600	EPA RSL	NS	NS	2.57	0.005	0.0004	0.000173
1,3-Dichlorobenzene	1,4-Dichlorobenzene	SW8260D	541-73-1	mg/kg	1290	NMED SSL	0.0720	1.12	-	0.005	0.0016	0.00048
1,4-Dichlorobenzene	-	SW8260D	106-46-7	mg/kg	1290	NMED SSL	0.0720	1.12	-	0.005	0.0008	0.000245
2,2-Dichloropropane	1,2-Dichloropropane	SW8260D	594-20-7	mg/kg	17.8	NMED SSL	0.0243	0.0277	-	0.005	0.0016	0.00044
2-Butanone (MEK)	-	SW8260D	78-93-3	mg/kg	37400	NMED SSL	20.1	NS	-	0.02	0.0128	0.00389
2-Chlorotoluene	-	SW8260D	95-49-8	mg/kg	1560	NMED SSL	3.56	NS	-	0.005	0.0016	0.00051
2-Hexanone	-	SW8260D	591-78-6	mg/kg	200	EPA RSL	NS	NS	0.175	0.02	0.0128	0.00489
4-Chlorotoluene	-	SW8260D	106-43-4	mg/kg	1600	EPA RSL	NS	NS	4.83	0.005	0.0008	0.000361
4-Methyl-2-Pentanone (MIBK)	-	SW8260D	108-10-1	mg/kg	5810	NMED SSL	4.80	NS	-	0.02	0.0128	0.00436
Acetone	-	SW8260D	67-64-1	mg/kg	66300	NMED SSL	49.8	NS	-	0.072	0.07	0.0356
Benzene	-	SW8260D	71-43-2	mg/kg	17.8	NMED SSL	0.0380	0.0418	-	0.005	0.0004	0.000151
Bromobenzene	-	SW8260D	108-86-1	mg/kg	290	EPA RSL	NS	NS	0.842	0.005	0.0016	0.00049
Bromochloromethane	-	SW8260D	74-97-5	mg/kg	150	EPA RSL	NS	NS	0.415	0.005	0.004	0.00246
Bromodichloromethane	-	SW8260D	75-27-4	mg/kg	6.19	NMED SSL	0.00621	NS	-	0.005	0.004	0.00213
Bromoform	-	SW8260D	75-25-2	mg/kg	674	NMED SSL	0.147	NS	-	0.0051	0.005	0.00255
Bromomethane	-	SW8260D	74-83-9	mg/kg	17.7	NMED SSL	0.0343	NS	-	0.01	0.0032	0.00135
Carbon Disulfide	-	SW8260D	75-15-0	mg/kg	1550	NMED SSL	4.42	NS	-	0.005	0.004	0.00166
Carbon Tetrachloride	-	SW8260D	56-23-5	mg/kg	10.7	NMED SSL	0.0334	0.0367	-	0.005	0.004	0.00201
Chlorobenzene	-	SW8260D	108-90-7	mg/kg	378	NMED SSL	0.836	1.08	-	0.005	0.004	0.00206
Chloroethane	-	SW8260D	75-00-3	mg/kg	16600	NMED SSL	107	NS	-	0.01	0.0064	0.00199
Chloroform	-	SW8260D	67-66-3	mg/kg	5.90	NMED SSL	0.0109	NS	-	0.01	0.0008	0.00029
Chloromethane	-	SW8260D	74-87-3	mg/kg	41.1	NMED SSL	0.0952	NS	-	0.01	0.0016	0.00077
cis-1,2-Dichloroethene	-	SW8260D	156-59-2	mg/kg	156	NMED SSL	0.184	0.352	-	0.005	0.0008	0.000201
cis-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-01-5	mg/kg	29.3	NMED SSL	0.0281	NS	-	0.005	0.0004	0.0001

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Background Value (2)	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact (3)						EPA-RSL Table Human Health Screening Levels Direct Contact (4)			
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial	
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1
Volatile Organic Compounds (Continued)															
Dibromochloromethane	-	SW8260D	124-48-1	mg/kg	N/A	13.9	1230	67.4	18300	340	5380	-	-	-	-
Dibromomethane	-	SW8260D	74-95-3	mg/kg	N/A	NS	57.9	NS	288	NS	53.9	-	-	-	-
Dichlorodifluoromethane	-	SW8260D	75-71-8	mg/kg	N/A	NS	182	NS	865	NS	161	-	-	-	-
Ethylbenzene	-	SW8260D	100-41-4	mg/kg	N/A	75.1	3930	368	29000	1770	5800	-	-	-	-
Hexachlorobutadiene	-	SW8260D	87-68-3	mg/kg	N/A	68.3	61.6	52.1	916	2400	269	-	-	-	-
Isopropylbenzene	-	SW8260D	98-82-8	mg/kg	N/A	NS	2360	NS	14200	NS	2740	-	-	-	-
m,p-Xylenes	Xylenes	SW8260D	179601-23-1	mg/kg	N/A	NS	871	NS	4280	NS	798	-	-	-	-
Methyl Tert-Butyl Ether	-	SW8260D	1634-04-4	mg/kg	N/A	975	37800	4820	178000	24200	33100	-	-	-	-
Methylene Chloride	-	SW8260D	75-09-2	mg/kg	N/A	766	409	14400	5130	89600	1210	-	-	-	-
Naphthalene	-	SW8260D	91-20-3	mg/kg	N/A	22.6	162	108	843	633	159	-	-	-	-
n-Butylbenzene	-	SW8260D	104-51-8	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	3900	NS	58000
n-Propylbenzene	-	SW8260D	103-65-1	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	3800	NS	24000
o-Xylene	-	SW8260D	95-47-6	mg/kg	N/A	NS	805	NS	3940	NS	736	-	-	-	-
4-Isopropyltoluene	Isopropylbenzene	SW8260D	99-87-6	mg/kg	N/A	NS	2360	NS	14200	NS	2740	-	-	-	-
Sec-Butylbenzene	-	SW8260D	135-98-8	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	7800	NS	120000
Styrene	-	SW8260D	100-42-5	mg/kg	N/A	NS	7260	NS	51300	NS	10200	-	-	-	-
Tert-Butylbenzene	-	SW8260D	98-06-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	7800	NS	120000
Tetrachloroethene	-	SW8260D	127-18-4	mg/kg	N/A	337	111	1650	629	7910	120	-	-	-	-
Toluene	-	SW8260D	108-88-3	mg/kg	N/A	NS	5230	NS	61300	NS	14000	-	-	-	-
Trans-1,2-Dichloroethene	-	SW8260D	156-60-5	mg/kg	N/A	NS	210	NS	1100	NS	206	-	-	-	-
Trans-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-02-6	mg/kg	N/A	29.3	141	146	695	781	130	-	-	-	-
Trichloroethene	-	SW8260D	79-01-6	mg/kg	N/A	15.5	6.77	112	36.5	5370	6.90	-	-	-	-
Trichlorofluoromethane	-	SW8260D	75-69-4	mg/kg	N/A	NS	1230	NS	6030	NS	1130	-	-	-	-
Vinyl Chloride	-	SW8260D	75-01-4	mg/kg	N/A	0.742	113	28.4	816	161	162	-	-	-	-
Explosives															
1,3,5-Trinitrobenzene	-	SW8330B	99-35-4	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	2200	NS	32000
1,3-Dinitrobenzene	-	SW8330B	99-65-0	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	6.3	NS	82
2,4-Dinitrotoluene	-	SW8330B	121-14-2	mg/kg	N/A	17.1	123	82.3	1820	600	536	-	-	-	-
2,6-Dinitrotoluene	-	SW8330B	606-20-2	mg/kg	N/A	3.56	18.5	17.2	276	165	80.9	-	-	-	-
2,4,6-Trinitrotoluene (TNT)	-	SW8330B	118-96-7	mg/kg	N/A	211	36.0	1070	573	7500	161	-	-	-	-
2-Amino-4,6-Dinitrotoluene	-	SW8330B	35572-78-2	mg/kg	N/A	NS	7.70	NS	127	NS	17.3	-	-	-	-
2-Nitrotoluene	-	SW8330B	88-72-2	mg/kg	N/A	31.6	70.4	165	1170	1130	319	-	-	-	-
3-Nitrotoluene	-	SW8330B	99-08-1	mg/kg	N/A	NS	6.16	NS	91.6	NS	26.9	-	-	-	-
4-Amino-2,6-Dinitrotoluene	-	SW8330B	19406-51-0	mg/kg	N/A	NS	7.64	NS	125	NS	17.3	-	-	-	-
4-Nitrotoluene	-	SW8330B	99-99-0	mg/kg	N/A	333	247	1600	3670	11800	1080	-	-	-	-
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	-	SW8330B	121-82-4	mg/kg	N/A	83.1	301	428	4890	2960	1350	-	-	-	-
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	-	SW8330B	479-45-8	mg/kg	N/A	NS	156	NS	2590	NS	706	-	-	-	-
Nitrobenzene	-	SW8330B	98-95-3	mg/kg	N/A	60.4	131	293	1540	1350	353	-	-	-	-
Nitroglycerin	-	SW8330B	55-63-0	mg/kg	N/A	313	6.16	1510	91.6	11100	26.9	-	-	-	-
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	-	SW8330B	2691-41-0	mg/kg	N/A	NS	3850	NS	63300	NS	17400	-	-	-	-
Pentaerythritol Tetranitrate (PETN)	-	SW8330B	78-11-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	1300	570	5300	7400
Total Petroleum Hydrocarbons															
GRO	-	SW8015D	8006-61-1	mg/kg	N/A	NS	100	NS	500	NS	500	-	-	-	-
DRO	-	SW8015D	68334-30-5	mg/kg	N/A	NS	1000	NS	3000	NS	3000	-	-	-	-

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Lowest Human Health Screening Level Direct Contact (5)	Lowest Human Health Screening Level Direct Contact Source (5)	Human Health Screening Levels - Groundwater Protection			Achievable Laboratory Limits		
							NMED Table A-3 and Table 6-4 Risk-based SSL (6)	NMED Table A-3 NMGW/MCL based SSL (6)	EPA-RSL Calculator Risk-based SSL (7)	LOQ	LOD	DL
							DAF = 20	DAF = 20	adjusted to DAF = 20			
Volatile Organic Compounds (Continued)												
Dibromochloromethane	-	SW8260D	124-48-1	mg/kg	13.9	NMED SSL	0.00755	NS	-	0.005	0.004	0.00227
Dibromomethane	-	SW8260D	74-95-3	mg/kg	53.9	NMED SSL	0.0335	NS	-	0.005	0.0008	0.000317
Dichlorodifluoromethane	-	SW8260D	75-71-8	mg/kg	161	NMED SSL	7.23	NS	-	0.01	0.0064	0.00274
Ethylbenzene	-	SW8260D	100-41-4	mg/kg	75.1	NMED SSL	0.264	12.3	-	0.005	0.0008	0.000305
Hexachlorobutadiene	-	SW8260D	87-68-3	mg/kg	52.1	NMED SSL	0.0413	NS	-	0.005	0.004	0.00217
Isopropylbenzene	-	SW8260D	98-82-8	mg/kg	2360	NMED SSL	11.4	NS	-	0.005	0.004	0.00241
m,p-Xylenes	Xylenes	SW8260D	179601-23-1	mg/kg	798	EPA RSL	2.98	154	-	0.0032	0.003	0.00104
Methyl Tert-Butyl Ether	-	SW8260D	1634-04-4	mg/kg	975	NMED SSL	0.553	NS	-	0.02	0.0064	0.00211
Methylene Chloride	-	SW8260D	75-09-2	mg/kg	409	NMED SSL	0.471	0.0221	-	0.005	0.0032	0.0016
Naphthalene	-	SW8260D	91-20-3	mg/kg	22.6	NMED SSL	0.0583	NS	-	0.0067	0.005	0.00331
n-Butylbenzene	-	SW8260D	104-51-8	mg/kg	3900	EPA RSL	NS	NS	64.6	0.005	0.0016	0.00056
n-Propylbenzene	-	SW8260D	103-65-1	mg/kg	3800	EPA RSL	NS	NS	24.5	0.005	0.0016	0.00058
o-Xylene	-	SW8260D	95-47-6	mg/kg	736	NMED SSL	2.98	NS	-	0.005	0.0008	0.000266
4-Isopropyltoluene	Isopropylbenzene	SW8260D	99-87-6	mg/kg	2360	NMED SSL	11.4	NS	-	0.005	0.0032	0.00114
Sec-Butylbenzene	-	SW8260D	135-98-8	mg/kg	7800	EPA RSL	NS	NS	117	0.005	0.0016	0.00077
Styrene	-	SW8260D	100-42-5	mg/kg	7260	NMED SSL	20.6	1.71	-	0.005	0.0008	0.00028
Tert-Butylbenzene	-	SW8260D	98-06-6	mg/kg	7800	EPA RSL	NS	NS	31.1	0.005	0.0016	0.0005
Tetrachloroethene	-	SW8260D	127-18-4	mg/kg	111	NMED SSL	0.321	0.0398	-	0.005	0.004	0.00191
Toluene	-	SW8260D	108-88-3	mg/kg	5230	NMED SSL	12.1	11.1	-	0.005	0.0008	0.000227
Trans-1,2-Dichloroethene	-	SW8260D	156-60-5	mg/kg	206	NMED SSL	0.342	0.503	-	0.005	0.0008	0.00039
Trans-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-02-6	mg/kg	29.3	NMED SSL	0.0281	NS	-	0.005	0.0002	0.000083
Trichloroethene	-	SW8260D	79-01-6	mg/kg	6.77	NMED SSL	0.0161	0.0310	-	0.005	0.004	0.00191
Trichlorofluoromethane	-	SW8260D	75-69-4	mg/kg	1130	NMED SSL	15.7	NS	-	0.01	0.009	0.0032
Vinyl Chloride	-	SW8260D	75-01-4	mg/kg	0.742	NMED SSL	0.00217	0.0134	-	0.005	0.0032	0.00134
Explosives												
1,3,5-Trinitrobenzene	-	SW8330B	99-35-4	mg/kg	2200	EPA RSL	NS	NS	42.4	0.0001	0.00004	0.0000138
1,3-Dinitrobenzene	-	SW8330B	99-65-0	mg/kg	6.30	EPA RSL	NS	NS	0.0353	0.0001	0.00004	0.0000166
2,4-Dinitrotoluene	-	SW8330B	121-14-2	mg/kg	17.1	NMED SSL	0.0492	NS	-	0.0001	0.00004	0.0000147
2,6-Dinitrotoluene	-	SW8330B	606-20-2	mg/kg	3.56	NMED SSL	0.0102	NS	-	0.0001	0.00004	0.0000191
2,4,6-Trinitrotoluene (TNT)	-	SW8330B	118-96-7	mg/kg	36.0	NMED SSL	0.861	NS	-	0.0001	0.00007	0.0000307
2-Amino-4,6-Dinitrotoluene	-	SW8330B	35572-78-2	mg/kg	7.70	NMED SSL	0.0230	NS	-	0.0001	0.00007	0.0000329
2-Nitrotoluene	-	SW8330B	88-72-2	mg/kg	31.6	NMED SSL	0.0458	NS	-	0.0002	0.0001	0.0000472
3-Nitrotoluene	-	SW8330B	99-08-1	mg/kg	6.16	NMED SSL	0.0250	NS	-	0.0002	0.00015	0.000064
4-Amino-2,6-Dinitrotoluene	-	SW8330B	19406-51-0	mg/kg	7.64	NMED SSL	0.0230	NS	-	0.0001	0.00007	0.0000299
4-Nitrotoluene	-	SW8330B	99-99-0	mg/kg	247	NMED SSL	0.613	NS	-	0.0002	0.0001	0.0000365
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	-	SW8330B	121-82-4	mg/kg	83.1	NMED SSL	0.0593	NS	-	0.0002	0.0001	0.000043
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	-	SW8330B	479-45-8	mg/kg	156	NMED SSL	5.59	NS	-	0.0002	0.0001	0.0000439
Nitrobenzene	-	SW8330B	98-95-3	mg/kg	60.4	NMED SSL	0.0144	NS	-	0.0003	0.0002	0.000085
Nitroglycerin	-	SW8330B	55-63-0	mg/kg	6.16	NMED SSL	0.0136	NS	-	0.002	0.0007	0.000215
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	-	SW8330B	2691-41-0	mg/kg	3850	NMED SSL	19.4	NS	-	0.0001	0.00007	0.0000227
Pentaerythritol Tetranitrate (PETN)	-	SW8330B	78-11-5	mg/kg	570	EPA RSL	NS	NS	5.18	0.002	0.001	0.000493
Total Petroleum Hydrocarbons												
GRO	-	SW8015D	8006-61-1	mg/kg	100	NMED SSL	4.94	NS	-	2	1.5	0.759
DRO	-	SW8015D	68334-30-5	mg/kg	1000	NMED SSL	13.2	NS	-	8	7	3.64

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Background Value (2)	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact (3)						EPA-RSL Table Human Health Screening Levels Direct Contact (4)			
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial	
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1
PCBs															
Aroclor 1016	-	SW8082A	12674-11-2	mg/kg	N/A	69.6	3.98	304	57.4	2440	17.2	-	-	-	-
Aroclor 1221	-	SW8082A	11104-28-2	mg/kg	N/A	1.81	NS	8.57	NS	55.3	NS	-	-	-	-
Aroclor 1232	-	SW8082A	11141-16-5	mg/kg	N/A	1.86	NS	8.82	NS	57.6	NS	-	-	-	-
Aroclor 1242	-	SW8082A	53469-21-9	mg/kg	N/A	2.43	NS	10.9	NS	85.3	NS	-	-	-	-
Aroclor 1248	-	SW8082A	12672-29-6	mg/kg	N/A	2.43	NS	10.7	NS	85.3	NS	-	-	-	-
Aroclor 1254	-	SW8082A	11097-69-1	mg/kg	N/A	2.43	1.14	11.0	16.4	85.3	4.91	-	-	-	-
Aroclor 1260	-	SW8082A	11096-82-5	mg/kg	N/A	2.43	NS	11.1	NS	85.3	NS	-	-	-	-
Chlorinated Pesticides															
alpha-BHC	-	SW8081B	319-84-6	mg/kg	N/A	0.845	493	4.07	7330	29.7	2150	-	-	-	-
beta-BHC	-	SW8081B	319-85-7	mg/kg	N/A	2.96	NS	14.3	NS	104	NS	-	-	-	-
delta-BHC	beta-BHC	SW8081B	319-86-8	mg/kg	N/A	2.96	NS	14.3	NS	104	NS	-	-	-	-
gamma-BHC (Lindane)	-	SW8081B	58-89-9	mg/kg	N/A	5.63	21.2	28.3	334	198	94.3	-	-	-	-
Heptachlor	-	SW8081B	76-44-8	mg/kg	N/A	1.18	30.8	5.70	458	41.5	135	-	-	-	-
Aldrin	-	SW8081B	309-00-2	mg/kg	N/A	0.311	1.85	1.50	27.5	10.9	8.07	-	-	-	-
Heptachlor Epoxide	-	SW8081B	1024-57-3	mg/kg	N/A	NS	NS	NS	NS	NS	NS	0.70	1.0	3.3	15
Endosulfan I	Endosulfan	SW8081B	959-98-8	mg/kg	N/A	NS	370	NS	5500	NS	1610	-	-	-	-
Endosulfan II	Endosulfan	SW8081B	33213-65-9	mg/kg	N/A	NS	370	NS	5500	NS	1610	-	-	-	-
Dieldrin	-	SW8081B	60-57-1	mg/kg	N/A	0.333	3.08	1.60	45.8	11.7	13.5	-	-	-	-
4,4'-DDD	-	SW8081B	72-54-8	mg/kg	N/A	22.2	NS	107	NS	778	NS	-	-	-	-
4,4'-DDE	-	SW8081B	72-55-9	mg/kg	N/A	15.7	NS	75.5	NS	549	NS	-	-	-	-
4,4'-DDT	-	SW8081B	50-29-3	mg/kg	N/A	18.7	36.2	95.0	577	659	162	-	-	-	-
Endrin	-	SW8081B	72-20-8	mg/kg	N/A	NS	18.5	NS	275	NS	80.7	-	-	-	-
Endosulfan sulfate	Endosulfan	SW8081B	1031-07-8	mg/kg	N/A	NS	370	NS	5500	NS	1610	-	-	-	-
Methoxychlor	-	SW8081B	72-43-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	320	NS	4100
Endrin aldehyde	Endrin	SW8081B	7421-93-4	mg/kg	N/A	NS	18.5	NS	275	NS	80.7	-	-	-	-
alpha-Chlordane	Chlordane	SW8081B	5103-71-9	mg/kg	N/A	17.7	35.3	89.0	556	623	153	-	-	-	-
gamma-Chlordane	Chlordane	SW8081B	5103-74-2	mg/kg	N/A	17.7	35.3	89.0	556	623	153	-	-	-	-
Herbicides															
2,4-D	-	SW8321B	94-75-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	700	NS	9600
2,4-DB	-	SW8321B	94-82-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-T	-	SW8321B	93-76-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	630	NS	8200
2,4,5-TP (Silvex)	-	SW8321B	93-72-1	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	510	NS	6600
Dicamba	-	SW8321B	1918-00-9	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	1900	NS	25000
Dichloroprop	-	SW8321B	120-36-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dinoseb	-	SW8321B	88-85-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	63	NS	820
MCPA	-	SW8321B	94-74-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	32	NS	410
Dioxins/Furans															
2,3,7,8-TCDD	-	SW8290	1746-01-6	mg/kg	N/A	0.0000490	0.0000506	0.000238	0.000808	0.00172	0.000226	-	-	-	-

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Lowest Human Health Screening Level Direct Contact (5)	Lowest Human Health Screening Level Direct Contact Source (5)	Human Health Screening Levels - Groundwater Protection			Achievable Laboratory Limits		
							NMED Table A-3 and Table 6-4 Risk-based SSL (6)	NMED Table A-3 NMGW/MCL based SSL (6)	EPA-RSL Calculator Risk-based SSL (7)	LOQ	LOD	DL
							DAF = 20	DAF = 20	adjusted to DAF = 20			
PCBs												
Aroclor 1016	-	SW8082A	12674-11-2	mg/kg	3.98	NMED SSL	2.01	0.717	-	0.066	0.03	0.0206
Aroclor 1221	-	SW8082A	11104-28-2	mg/kg	1.81	NMED SSL	0.0143	NS	-	0.094	0.06	0.0312
Aroclor 1232	-	SW8082A	11141-16-5	mg/kg	1.86	NMED SSL	0.0143	NS	-	0.066	0.0213	0.0102
Aroclor 1242	-	SW8082A	53469-21-9	mg/kg	2.43	NMED SSL	0.184	NS	-	0.066	0.06	0.0182
Aroclor 1248	-	SW8082A	12672-29-6	mg/kg	2.43	NMED SSL	0.181	NS	-	0.066	0.03	0.016
Aroclor 1254	-	SW8082A	11097-69-1	mg/kg	1.14	NMED SSL	0.308	NS	-	0.066	0.03	0.011
Aroclor 1260	-	SW8082A	11096-82-5	mg/kg	2.43	NMED SSL	0.825	NS	-	0.066	0.03	0.0169
Chlorinated Pesticides												
alpha-BHC	-	SW8081B	319-84-6	mg/kg	0.845	NMED SSL	0.00608	NS	-	0.0034	0.00133	0.000428
beta-BHC	-	SW8081B	319-85-7	mg/kg	2.96	NMED SSL	0.0213	NS	-	0.004	0.00267	0.00133
delta-BHC	beta-BHC	SW8081B	319-86-8	mg/kg	2.96	NMED SSL	0.0213	NS	-	0.0034	0.00267	0.000802
gamma-BHC (Lindane)	-	SW8081B	58-89-9	mg/kg	5.63	NMED SSL	0.0364	NS	-	0.0034	0.00133	0.000393
Heptachlor	-	SW8081B	76-44-8	mg/kg	1.18	NMED SSL	0.0275	0.497	-	0.0034	0.00133	0.000418
Aldrin	-	SW8081B	309-00-2	mg/kg	0.311	NMED SSL	0.00488	NS	-	0.0034	0.00133	0.000502
Heptachlor Epoxide	-	SW8081B	1024-57-3	mg/kg	0.700	EPA RSL	NS	NS	0.00567	0.0034	0.00267	0.000852
Endosulfan I	Endosulfan	SW8081B	959-98-8	mg/kg	370	NMED SSL	20.4	NS	-	0.0034	0.001	0.000352
Endosulfan II	Endosulfan	SW8081B	33213-65-9	mg/kg	370	NMED SSL	20.4	NS	-	0.0034	0.00133	0.000574
Dieldrin	-	SW8081B	60-57-1	mg/kg	0.333	NMED SSL	0.0106	NS	-	0.0034	0.00133	0.00042
4,4'-DDD	-	SW8081B	72-54-8	mg/kg	22.2	NMED SSL	1.12	NS	-	0.0034	0.00267	0.00109
4,4'-DDE	-	SW8081B	72-55-9	mg/kg	15.7	NMED SSL	1.63	NS	-	0.0034	0.00133	0.000476
4,4'-DDT	-	SW8081B	50-29-3	mg/kg	18.7	NMED SSL	11.6	NS	-	0.004	0.00267	0.00118
Endrin	-	SW8081B	72-20-8	mg/kg	18.5	NMED SSL	1.35	1.21	-	0.0034	0.00133	0.000612
Endosulfan sulfate	Endosulfan	SW8081B	1031-07-8	mg/kg	370	NMED SSL	20.4	NS	-	0.0034	0.00133	0.000552
Methoxychlor	-	SW8081B	72-43-5	mg/kg	320	EPA RSL	NS	NS	40.0	0.0066	0.00267	0.0009
Endrin aldehyde	Endrin	SW8081B	7421-93-4	mg/kg	18.5	NMED SSL	1.35	1.21	-	0.0034	0.00133	0.000342
alpha-Chlordane	Chlordane	SW8081B	5103-71-9	mg/kg	17.7	NMED SSL	0.456	2.03	-	0.0034	0.00133	0.000646
gamma-Chlordane	Chlordane	SW8081B	5103-74-2	mg/kg	17.7	NMED SSL	0.456	2.03	-	0.0034	0.00133	0.000532
Herbicides												
2,4-D	-	SW8321B	94-75-7	mg/kg	700	EPA RSL	NS	NS	0.906	0.005	0.002	0.00107
2,4-DB	-	SW8321B	94-82-6	mg/kg	NS		NS	NS	NS	0.012	0.008	0.00406
2,4,5-T	-	SW8321B	93-76-5	mg/kg	630	EPA RSL	NS	NS	1.35	0.005	0.002	0.00118
2,4,5-TP (Silvex)	-	SW8321B	93-72-1	mg/kg	510	EPA RSL	NS	NS	1.22	0.005	0.002	0.000905
Dicamba	-	SW8321B	1918-00-9	mg/kg	1900	EPA RSL	NS	NS	2.93	0.006	0.002	0.00125
Dichloroprop	-	SW8321B	120-36-5	mg/kg	NS		NS	NS	NS	0.005	0.002	0.000788
Dinoseb	-	SW8321B	88-85-7	mg/kg	63.0	EPA RSL	NS	NS	2.57	0.009	0.002	0.000889
MCPA	-	SW8321B	94-74-6	mg/kg	32.0	EPA RSL	NS	NS	0.0391	0.005	0.002	0.00112
Dioxins/Furans												
2,3,7,8-TCDD	-	SW8290	1746-01-6	mg/kg	0.0000490	NMED SSL	NS	NS	0.0000118	0.000001	0.0000008	0.0000002

Table 1 – Human Health Screening Levels in Soil

Analyte	SL Surrogate	Analytical Method (1)	CASRN	Units	Background Value (2)	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact (3)						EPA-RSL Table Human Health Screening Levels Direct Contact (4)			
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial	
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1

Notes:
1. Analytical Method - EPA Test Methods for Evaluating Solid Waste latest edition (the most current version of each method the laboratory is accredited to will be used).
2. Selected FWDA background values are presented in Table 8-1 from *Soil Background Study and Data Evaluation Report* (Shaw, 2010), except arsenic and antimony:
   - The arsenic background reference value is 5.6 mg/kg per Evaluation of Background Levels for Arsenic in Soil (NMED, 2013b). If the maximum arsenic concentration is greater than 5.6 mg/kg, then the range of arsenic concentrations in the sample data set is to be compared to the range of arsenic concentrations in the site-specific background data set (0.2 mg/kg to 11.2 mg/kg).
   - The antimony background level of 0.23 mg/kg is from soil unit 350ss as presented in Table 4-1 of the *Phase 2 Soil Background Report* (USACE, 2013).
3. NMED *Risk Assessment Guidance for Site Investigations and Remediation* , November 2022 Revised (Appendix A, Table A-1, residential, commercial/industrial, construction worker).
4. USEPA RSL Summary Table (TR=1E-06, HQ=1), November 2023 (resident soil and industrial soil). The RSLs for carcinogenic analytes are adjusted to a TR=1E-05. Provided for analytes without a NMED SSL.
   Residential RSL for lead was changed to 200 mg/kg following USEPA's January 17, 2024, memorandum *Updated Residential Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities (USEPA, 2024).*
5. The lesser of the NMED screening levels for residents, industrial/occupational workers, and construction workers (or EPA RSL (target excess cancer risk level of 1 x 10-5) if there is no NMED screening level.
6. NMED *Risk Assessment Guidance for Site Investigations and Remediation* , November 2022 Revised (Appendix A, Table A-3, risk-based SSL and NMGW/MCL-based SSL, and Table 6-4 for petroleum hydrocarbon mixtures; DAF=20).
7. USEPA RSL Calculator (TR=1E-05, HQ=1), November 2023 (protection of groundwater risk-based SSL). All analytes are adjusted to a DAF of 20.
8. The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.
9. Lead human health screening levels appear in the non-cancer column, but the health effects of lead are not correlated with the typical carcinogenic or non-carcinogenic dose-based toxicity values that characterize other chemicals. Instead, the screening level for lead is based on a modeled concentration in soil that results in an acceptable blood lead level protective of adverse developmental health effects (USEPA, 2024).
10. The background value for manganese is greater than the NMED human health screening level for direct contact.

Cells shaded in blue show that the screening level is lower than the achievable LOQ. If identified as a chemical of potential concern, these analytes will be addressed in the uncertainty discussion.

Acronyms and Abbreviations:

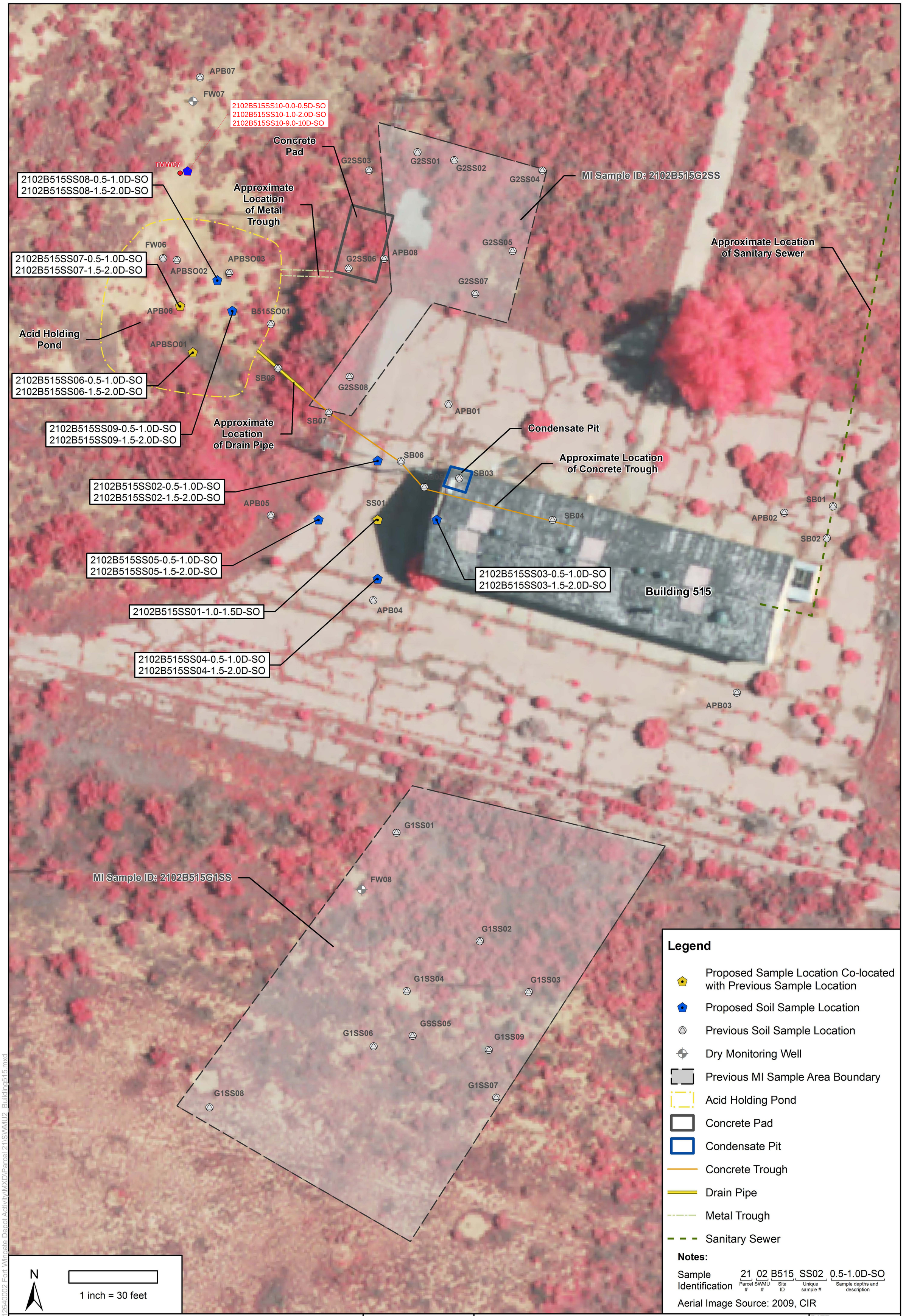
CASRN = Chemical Abstracts Service Registry Number
DAF = Dilution attenuation factor
DL = Detection limit
DRO = Diesel-range organics
EPA = United States Environmental Protection Agency
FWDA = Fort Wingate Depot Activity
GRO = Gasoline-range organics
HQ = Hazard quotient
LOD = Limit of detection
LOQ = Limit of quantitation
MCL = Maximum contaminant level
mg/kg = Milligram per kilogram
N/A = Not applicable
NMED = New Mexico Environment Department
NMGW = New Mexico groundwater
NS = No standard
RRO = Residual-range organics
RSL = Regional screening level
SIM = Selected ion mode
SL-SSL = soil leachate-based SSL
SSL = Soil screening level
TAL = Target analyte list

Table 3-1. Summary of Samples to be Collected at SWMU 2 – Building 515

Table 3-1. Summary of Samples to be Collected at SWMU 2 – Building 515

Sample Identification Number	Sample Depth (feet)	Sample Analyses	Regulatory Requirement
2102B515SS01-1.0-1.5D-SO	1 to 1.5	Lead, Arsenic, and PCBs	NMED NOD Comment 3 and Army Recommendations from Section 4.5 of RFI Report
2102B515SS02-0.0-0.5D-SO	0 to 0.5		
2102B515SS02-1.0-1.5D-SO	1.0 to 1.5		
2102B515SS03-0.0-0.5D-SO	0 to 0.5		
2102B515SS03-1.0-1.5D-SO	1.0 to 1.5		
2102B515SS04-0.0-0.5D-SO	0 to 0.5		
2102B515SS04-1.0-1.5D-SO	1.0 to 1.5		
2102B515SS05-0.0-0.5D-SO	0 to 0.5		
2102B515SS05-1.0-1.5D-SO	1.0 to 1.5		
2102B515SS06-0.0-0.5D-SO	0.5 to 1.0	Total Chromium and Chromium VI	NMED NOD Comment 5
2102B515SS06-1.5-2.0D-SO	1.5 to 2.0		
2102B515SS07-0.0-0.5D-SO	0.5 to 1.0	Total Chromium and Chromium VI	NMED NOD Comment 5
2102B515SS07-1.5-2.0D-SO	1.5 to 2.0		
2102B515SS08-0.0-0.5D-SO	0.5 to 1.0	Total Chromium and Chromium VI	NMED NOD Comment 5
2102B515SS08-1.5-2.0D-SO	1.5 to 2.0		
2102B515SS09-0.0-0.5D-SO	0.5 to 1.0	Total Chromium and Chromium VI	NMED NOD Comment 5
2102B515SS09-1.5-2.0D-SO	1.5 to 2.0		
2102B515SS10-0.0-0.5D-SO	0.0 to 0.5	Total Chromium and Chromium VI	NMED Comment 6 from *Approval with Modifications for the Final Northern Area Groundwater RCRA Facility Investigation Report, Revision 3*, dated October 19, 2023
2102B515SS10-1.0-2.0D-SO	1.5 to 2.0		
2102B515SS10-9.0-10D-SO	9.0 to 10		

Figure 3-1. Phase 2 Sample Locations, SWMU 2 - Building 515



U.S. ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT

AMEC
Environment & Infrastructure, Inc.

DWN BY:	EAC
CHK'D BY:	CW
DATUM:	NAD 1983
PROJECTION:	STATE PLANE NM WEST
SCALE:	1:360

FORT WINGATE DEPOT ACTIVITY
PARCEL 21 PHASE 2 RFI WORK PLAN

PHASE 2 SAMPLE LOCATIONS
SWMU 2 - BUILDING 515

DATE: August 2012
PROJECT NO.: 912640002.0003.01
FIGURE NO.: 3-1

Path: X:\Projects\2011 Projects\912640002 Fort Wingate Depot Activity\MXD\Parcel 21\SWMU2_Building515.mxd

DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF, G-9
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WASHINGTON, DC 20310-0600

March 15, 2024

Army Environmental Division - BRAC Operations Branch

Mr. Ricardo Maestas
Acting Chief, Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

RE: Sewer Line Investigation Work Plan, Fort Wingate Depot Activity, McKinley County, New Mexico. EPA# NM6213820974

Dear Mr. Maestas:

The purpose of this letter is to transmit the Sewer Line Investigation Work Plan. The work plan addresses comment #51 from the New Mexico Environment Department (NMED) Notice of Disapproval (NOD) Northern Area Groundwater RFI Report (HWB-FWDA-21-004) dated January 25, 2022, comment #27 in the July 25, 2022, NOD letter, comment #19 in the March 27, 2023, NOD letter, and comment #10 in the Approval with Modifications letter dated October 19, 2023. The work plan provides methods for sewer line investigation soil sampling within the boundaries of the Fort Wingate Depot Activity (FWDA). The work plan covers activities to be performed at FWDA, authorized under RCRA Permit EPA ID No. NM6213820974.

If you have any questions or require further information, please contact me at Cheryl.a.frischkorn.civ@army.mil, 703-624-6429 (Mobile) or George.h.cushman.civ@army.mil, 703-455-3234 (Temporary Home Office, preferred), 703-608-2245 (Mobile).

Sincerely,

Cheryl Frischkorn

Cheryl Frischkorn
BRAC Environmental Coordinator
Fort Wingate Depot Activity
BRAC Operations Branch
Environmental Division

Enclosures

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