

APPENDIX L
FATE AND TRANSPORT MODELING RESULTS

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Table L-1. Physical and Chemical Properties of Metal SRCs at Load Line 3

Chemicals of Interest	K _d (L/kg)	Reference	H' (atm-m ³ /mol)	Reference	C _w (mg/L)	C _w Reference	Generic SSL (DF = 1)	Reference
Aluminum	1.50E+03	b	NA		3.65E+01	PRG9	5.48E+04	
Antimony	4.50E+01	a	NA		6.00E-03	MCL	3.00E-01	a
Arsenic	2.90E+01	a	NA		1.00E-02	MCL	2.90E-01	a
Barium	4.10E+01	a	NA		2.00E+00	MCL	8.20E+01	a
Beryllium	7.90E+02	a	NA		4.00E-03	MCL	3.00E+00	a
Cadmium	7.50E+01	a	NA		5.00E-03	MCL	4.00E-01	a
Chromium (total)	1.90E+01	a	NA		1.00E-01	MCL	2.00E+00	a
Cobalt	1.30E+03	c	NA		7.30E-01	PRG9	9.49E+02	
Copper	3.50E+01	b	NA		1.30E+00	MCL	4.58E+01	
Cyanide (amenable)	9.90E+00	a	NA		7.30E-01	PRG9	2.00E+00	a
Lead	1.60E+04	c	NA		1.50E-02	MCL	2.40E+02	a
Manganese	7.50E+02	c	NA		8.76E-01	PRG9	6.57E+02	
Mercury	5.20E+01	a	1.14E-02	a	2.00E-03	MCL	1.00E-01	
Nickel	6.50E+01	a	NA		7.30E-01	PRG9	7.00E+00	a
Selenium	5.00E+00	a	NA		5.00E-02	MCL	3.00E-01	a
Silver	8.30E+00	a	NA		1.83E-01	PRG9	2.00E+00	a
Thallium	7.10E+01	a	NA		2.00E-03	MCL	4.00E-02	a
Zinc	6.20E+01	a	NA		1.10E+01	PRG9	6.20E+02	a

References:

- a. EPA Soil Screening Guidance: Technical Background Document, May 1996.
 - b. Baes and Sharp 1983.
 - c. Sheppard and Thibault 1990.
- C_w = Target groundwater concentration (either MCL or PRG9).
 DF = Dilution factor.
 H' = Henry's Law Constant.
 K_d = Distribution coefficient.
 NA = Not applicable.
 MCL = Clean Water Act drinking water maximum contaminant level.
 PRG9 = U.S. Environmental Protection Agency Region 9 preliminary remedial goal.
 SRC = Site-related contaminant.
 SSL = Soil screening guidance.

Table L-2. Physical and Chemical Properties of Organic SRCs at Load Line 3

Chemicals of Interest	K _{oc} (L/kg)		H' (atm·m ³ /mol)		C _w (mg/L)	C _w Reference
<i>Volatile Organic Compounds</i>						
2-Butanone (MEK)	1.15E+00	d	6.61E-07	d	1.90E+00	PRG9
Acetone	5.75E-01	a	3.88E-05	a	6.08E-01	PRG9
Benzene	6.17E+01	a	5.55E-03	a	5.00E-03	MCL
Dichloromethane (methylene chloride)	1.00E+01	a	2.19E-03	a	5.00E-03	MCL
Toluene	1.40E+02	a	6.64E-03	a	1.00E+00	MCL
<i>Semivolatile Organic Compounds</i>						
2-Methylnaphthalene	7.50E+03	e	5.18E-04	e	NF	
Acenaphthene	4.90E+03	a	1.55E-04	a	3.70E-01	PRG9
Acenaphthylene	7.40E+03	d	1.14E-04	d	3.70E-01	PRG9
Anthracene	2.35E+04	a	6.50E-05	a	1.80E+00	PRG9
Benzo(a)anthracene	3.58E+05	a	3.35E-06	a	9.20E-05	PRG9
Benzo(a)pyrene	9.69E+05	a	1.13E-06	a	2.00E-04	MCL
Benzo(b)fluoranthene	1.23E+06	a	1.11E-04	a	9.20E-05	PRG9
Benzo(g,h,i)perylene	1.07E+07	d	1.40E-07	d	NF	
Benzo(k)fluoranthene	1.23E+06	a	8.29E-07	a	9.20E-04	PRG9
Benzoic Acid			1.54E-06	a	1.46E+02	PRG9
Bis(2-ethylhexyl) phthalate	1.11E+05	a	1.02E-07	a	6.00E-03	MCL
Butyl benzyl phthalate	1.37E+04	a	1.26E-06	a	7.30E+00	PRG9
Carbazole	3.39E+03	a	1.53E-08	a	3.36E-03	PRG9
Chrysene	3.98E+05	a	9.46E-05		9.20E-03	PRG9
Dibenz(a,h)anthracene	1.79E+06	a	1.47E-08		9.20E-06	PRG9
Dibenzofuran	8.31E+03	d	1.26E-05	e	2.43E-02	PRG9
Di-n-butyl phthalate	1.57E+03	a	9.38E-10	a	3.60E+00	PRG9
Fluoranthene	4.91E+04	a	1.61E-05	a	1.50E+00	PRG9
Fluorene	7.71E+03	a	6.36E-05	a	2.40E-01	PRG9
Indeno(1,2,3-cd)pyrene	3.47E+06	a	1.60E-06	a	9.20E-05	PRG9
Naphthalene	1.19E+03	a	4.83E-04	a	6.20E-03	PRG9
Phenanthrene	1.82E+04	d	3.93E-05	d	1.10E+00	f
Pyrene	6.80E+04	a	1.10E-05	a	1.80E-01	PRG9
<i>Pesticides and PCBs</i>						
PCB-1260	3.09E+05	a	3.36E-04	d	4.30E-05	PRG9
beta-BHC	2.14E+03	a	7.43E-07	a	3.70E-05	PRG9
alpha-Chlordane	5.13E+04	a	4.86E-05	a	1.92E-04	PRG9
gamma-Chlordane	5.13E+04	a	4.86E-05	a	1.92E-04	PRG9
DDE	8.64E+04	a	2.10E-05	a	1.98E-04	PRG9
DDT	6.78E+05	a	8.10E-06	a	1.98E-04	PRG9
Dieldrin	2.55E+04	a	1.51E-05	a	4.20E-06	PRG9
Endosulfan II	2.04E-03	a	1.12E-05	a	2.19E-01	PRG9
Endosulfan Sulfate	2.04E-03	a	1.12E-05	a	2.19E-01	PRG9
Endrin	1.08E+04	a	7.52E-06	a	1.09E-02	PRG9
Endrin Aldehyde	1.08E+04	a	7.52E-06	a	1.09E-02	PRG9
Endrin Ketone	1.08E+04	f	4.00E-07	f	1.09E-02	PRG9
Heptachlor	9.53E+03	a	1.48E+00		1.49E-05	PRG9
Heptachlor Epoxide	8.32E+04	a	9.50E-06		7.39E-06	PRG9
Methoxychlor	8.00E+04	a	1.58E-05	a	1.83E-01	PRG9
PCB-1254	3.09E+05	a	8.37E-03	d	4.30E-05	PRG9
<i>Explosives</i>						
2-Amino-4,6-dinitrotoluene	NF		NF		NF	
4-Amino-2,6-dinitrotoluene	NF		NF		NF	
1,3-Dinitrobenzene	1.95E+01	d	NF		3.65E-03	PRG9

Table L-2. Physical and Chemical Properties of Organic SRCs at Load Line 3

Chemicals of Interest	K _{oc} (L/kg)		H' (atm·m ³ /mol)		C _w (mg/L)	C _w Reference
2,4-Dinitrotoluene	9.55E+01	a	9.26E-08	a	7.30E-02	PRG9
2,6-Dinitrotoluene	6.92E+01	a	7.47E-07	a	3.60E-02	PRG9
HMX	NF		NF		1.80E+00	PRG9
Nitrobenzene	1.19E+02		2.40E-05		3.40E-03	PRG9
Nitrocellulose	NF		NF			
Nitroguanidine	5.01E+01	d	NF		3.65E+00	PRG9
4-Nitrotoluene	1.48E+02	f	4.10E-05	f	6.10E-02	PRG9
RDX	4.67E+00	f	NF		6.10E-04	PRG9
Tetryl	NF		NF		3.60E-01	PRG9
1,3,5-Trinitrobenzene	9.98E+00	d	NF		1.09E+00	PRG9
2,4,6-Trinitrotoluene	2.13E+05	d	NF		2.24E-03	PRG9

References:

- a. EPA Soil Screening Guidance: Technical Background Document, May 1996.
- b. Baes and Sharp 1983
- c. Sheppard and Thibault 1990
- d. RREL = Risk Reduction Engineering Laboratory (EPA 1994)
- e. RBCA = Risk-based corrective action manual and protocol (SAIC 1999)
- f. Calculated from EPA Superfund Office of Emergency and Remedial Response Soil Screening Guidance <http://risk.lsd.ornl.gov>
- BHC = Benzene hexachloride.
- C_w = Target groundwater concentration (either MCL or PRG9).
- DDE = Dichlorodiphenyldichloroethylene.
- DDT = Dichlorodiphenyltrichloroethane.
- H' = Henry's Law Constant.
- HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.
- K_d = Distribution coefficient.
- K_{oc} = Octanol water coefficient.
- NA = Not available.
- NF = Not found.
- MCL = Clean Water Act drinking water maximum contaminant level.
- PCB = Polychlorinated biphenyl.
- PRG9 = U.S. Environmental Protection Agency Region 9 preliminary remedial goal.
- RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.
- SRC = Site-related contaminant.

Table L-3. Physical and Chemical Properties of Initial CMCOPCs at Load Line 3 Required for SESOIL Modeling

Site-Related Chemicals	Molecular Weight	Solubility (mg/L)	Kd or Koc (L/kg)	Diffusion Coefficient in Air (cm ² /s)	Biodegradation Rate (1/day)
<i>Explosives</i>					
1,3-Dinitrobenzene	168.1	4.69E+02	1.95E+01	2.80E-01	1.90E-03
2,4-Dinitrotoluene	182.1	2.70E+02	9.55E+01	2.03E-01	1.90E-03
2,6-Dinitrotoluene	182.1	1.82E+02	6.92E+01	3.27E-02	1.90E-03
4-Nitrotoluene	137.1	4.42E+02	1.48E+02	2.30E-01	NF
Nitrobenzene	123.1	2.09E+03	1.19E+02	7.60E-02	1.80E-03
1,3,5-Trinitrobenzene	213.1	3.50E+02	9.98E+00	2.49E-01	NF
2,4,6-Trinitrotoluene	227.1	1.00E+02	2.13E+05	1.79E-01	1.90E-03
RDX	222.3	6.00E+01	4.67E+00	1.00E-02	NF

CMCOPC = Contaminant migration contaminant of potential concern.

NF = Not found.

Kd = Distribution coefficient.

Koc = Organic carbon partition coefficient.

RDX =Hexahydro-1,3,5-trinitro-1,3,5-triazine.

SESOIL = Seasonal Soil Compartment (model).

**Table L-4. Climatic Data Used in HELP Model for Load Line 3, Ravenna
(Station: Youngstown WSO AP, Ohio)^a**

									Model
	Air Temp	Cloud			Evapotranspiration^b	Precipitation	Duration	Storms per	Days in
Month	(°C)	Cover	Humidity	ALBEDO	(cm/d)	(cm)	(days)	Month	Month
October	12	0.60	0.70	0.17	0	6.46	0.42	5.33	30.4
November	5.22	0.70	0.75	0.24	0	7.4	0.53	6.67	30.4
December	-1.06	0.80	0.75	0.31	0	7.06	0.57	6.14	30.4
January	-2.94	0.80	0.80	0.3	0	7.06	0.61	5.69	30.4
February	-2.33	0.70	0.75	0.32	0	5.76	0.53	5.09	30.4
March	2.33	0.70	0.70	0.29	0	8.26	0.55	7.14	30.4
April	9.11	0.70	0.70	0.19	0	8.83	0.48	7.4	30.4
May	14.61	0.60	0.70	0.16	0	8.46	0.45	7.15	30.4
June	19.89	0.60	0.70	0.16	0	9.07	0.36	6.57	30.4
July	21.89	0.50	0.70	0.16	0	9.8	0.3	6.06	30.4
August	21.11	0.55	0.70	0.16	0	8.14	0.3	6.06	30.4
September	17.67	0.55	0.70	0.16	0	7.85	0.4	5.44	30.4

^a 1996 data from Youngstown, Ohio, Weather Service Office - Airport Station

^b Data calculated in SESOIL model. 0.00 indicates evapotranspiration is calculated from other climatic data.

Table L-5. Development of Preliminary CMCOPCs Based on Comparison of the SRCs Exposure Concentration with its GSSL with DAF = 1.6

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Change Houses Aggregate	Metals	ALUMINUM	mg/kg	1.62E+04	8.77E+04	
Soil	Change Houses Aggregate	Metals	BARIUM	mg/kg	2.05E+02	1.31E+02	Yes
Soil	Change Houses Aggregate	Metals	BERYLLIUM	mg/kg	2.90E+00	4.80E+00	
Soil	Change Houses Aggregate	Metals	CADMIUM	mg/kg	9.02E-01	6.40E-01	Yes
Soil	Change Houses Aggregate	Metals	CHROMIUM	mg/kg	1.72E+01	3.20E+00	Yes
Soil	Change Houses Aggregate	Metals	COBALT	mg/kg	9.70E+00	1.52E+03	
Soil	Change Houses Aggregate	Metals	COPPER	mg/kg	1.85E+01	7.33E+01	
Soil	Change Houses Aggregate	Metals	LEAD	mg/kg	1.77E+02	3.84E+02	
Soil	Change Houses Aggregate	Metals	MANGANESE	mg/kg	1.97E+03	1.05E+03	Yes
Soil	Change Houses Aggregate	Metals	MERCURY	mg/kg	7.40E-02	1.60E-01	
Soil	Change Houses Aggregate	Metals	NICKEL	mg/kg	1.85E+01	1.12E+01	Yes
Soil	Change Houses Aggregate	Metals	SILVER	mg/kg	4.52E+00	3.20E+00	Yes
Soil	Change Houses Aggregate	Metals	THALLIUM	mg/kg	3.40E-01	6.40E-02	Yes
Soil	Change Houses Aggregate	Metals	ZINC	mg/kg	8.48E+01	9.92E+02	
Soil	Change Houses Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	6.30E+00	4.26E-02	Yes
Soil	DLA Tanks Aggregate	Metals	ANTIMONY	mg/kg	7.57E+02	4.80E-01	Yes
Soil	DLA Tanks Aggregate	Metals	ARSENIC	mg/kg	1.23E+01	1.60E+00	Yes
Soil	DLA Tanks Aggregate	Metals	BARIUM	mg/kg	1.21E+02	1.31E+02	
Soil	DLA Tanks Aggregate	Metals	BERYLLIUM	mg/kg	9.79E-01	4.80E+00	
Soil	DLA Tanks Aggregate	Metals	CADMIUM	mg/kg	8.72E-01	6.40E-01	Yes
Soil	DLA Tanks Aggregate	Metals	CHROMIUM	mg/kg	2.94E+01	3.20E+00	Yes
Soil	DLA Tanks Aggregate	Metals	COBALT	mg/kg	8.74E+00	1.52E+03	
Soil	DLA Tanks Aggregate	Metals	COPPER	mg/kg	1.59E+01	7.33E+01	
Soil	DLA Tanks Aggregate	Metals	LEAD	mg/kg	3.01E+02	3.84E+02	
Soil	DLA Tanks Aggregate	Metals	MANGANESE	mg/kg	1.30E+03	1.05E+03	Yes
Soil	DLA Tanks Aggregate	Metals	MERCURY	mg/kg	5.80E-02	1.60E-01	
Soil	DLA Tanks Aggregate	Metals	NICKEL	mg/kg	1.57E+01	1.12E+01	Yes
Soil	DLA Tanks Aggregate	Metals	SELENIUM	mg/kg	1.30E+00	4.80E-01	Yes
Soil	DLA Tanks Aggregate	Metals	THALLIUM	mg/kg	5.76E-01	6.40E-02	Yes
Soil	DLA Tanks Aggregate	Metals	ZINC	mg/kg	8.74E+01	9.92E+02	
Soil	DLA Tanks Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	8.26E-03	3.20E-04	Yes
Soil	DLA Tanks Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	8.20E-02	1.28E-01	
Soil	DLA Tanks Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	5.40E-02	6.56E-01	
Soil	DLA Tanks Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	7.90E-02	3.20E-01	
Soil	DLA Tanks Aggregate	Organics-Semivolatile	BENZO(K)FLUORANTHENE	mg/kg	5.00E-02	3.20E+00	
Soil	DLA Tanks Aggregate	Organics-Semivolatile	CHRYSENE	mg/kg	8.30E-02	1.28E+01	
Soil	DLA Tanks Aggregate	Organics-Semivolatile	FLUORANTHENE	mg/kg	1.30E-01	3.36E+02	
Soil	DLA Tanks Aggregate	Organics-Semivolatile	PHENANTHRENE	mg/kg	7.40E-02	6.45E+01	

Table L-5. Development of Preliminary CMCOPCs Based on Comparison of the SRCs Exposure Concentration with its GSSL with DAF = 1.6

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	DLA Tanks Aggregate	Organics-Semivolatile	PYRENE	mg/kg	8.90E-02	3.68E+02	
Soil	Explosives Handling Areas Aggregate	General	CHROMIUM, HEXAVALENT	mg/kg	1.10E+00	3.20E+00	
Soil	Explosives Handling Areas Aggregate	Metals	ALUMINUM	mg/kg	9.53E+03	8.77E+04	
Soil	Explosives Handling Areas Aggregate	Metals	ANTIMONY	mg/kg	5.11E+00	4.80E-01	Yes
Soil	Explosives Handling Areas Aggregate	Metals	ARSENIC	mg/kg	1.33E+01	1.60E+00	Yes
Soil	Explosives Handling Areas Aggregate	Metals	BARIUM	mg/kg	1.36E+02	1.31E+02	Yes
Soil	Explosives Handling Areas Aggregate	Metals	BERYLLIUM	mg/kg	8.69E-01	4.80E+00	
Soil	Explosives Handling Areas Aggregate	Metals	CADMIUM	mg/kg	1.74E+00	6.40E-01	Yes
Soil	Explosives Handling Areas Aggregate	Metals	CHROMIUM	mg/kg	2.60E+01	3.20E+00	Yes
Soil	Explosives Handling Areas Aggregate	Metals	COBALT	mg/kg	9.74E+00	1.52E+03	
Soil	Explosives Handling Areas Aggregate	Metals	COPPER	mg/kg	3.33E+01	7.33E+01	
Soil	Explosives Handling Areas Aggregate	Metals	CYANIDE	mg/kg	3.80E-01	3.20E+00	
Soil	Explosives Handling Areas Aggregate	Metals	LEAD	mg/kg	1.53E+02	3.84E+02	
Soil	Explosives Handling Areas Aggregate	Metals	MANGANESE	mg/kg	8.66E+02	1.05E+03	
Soil	Explosives Handling Areas Aggregate	Metals	MERCURY	mg/kg	5.06E-02	1.60E-01	
Soil	Explosives Handling Areas Aggregate	Metals	NICKEL	mg/kg	2.14E+01	1.12E+01	Yes
Soil	Explosives Handling Areas Aggregate	Metals	SELENIUM	mg/kg	1.11E+00	4.80E-01	Yes
Soil	Explosives Handling Areas Aggregate	Metals	SILVER	mg/kg	4.25E-01	3.20E+00	
Soil	Explosives Handling Areas Aggregate	Metals	THALLIUM	mg/kg	4.81E-01	6.40E-02	Yes
Soil	Explosives Handling Areas Aggregate	Metals	ZINC	mg/kg	1.79E+02	9.92E+02	
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	4.49E+00	4.00E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	1,3-DINITROBENZENE	mg/kg	4.70E+00	1.54E-03	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	1.28E+04	9.12E-04	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	6.83E+00	6.40E-05	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	2,6-DINITROTOLUENE	mg/kg	2.30E-01	6.72E-05	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	2-AMINO-4,6-DINITROTOLUENE	mg/kg	6.18E+00		
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	4-AMINO-2,6-DINITROTOLUENE	mg/kg	6.50E+00		
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	4-NITROTOLUENE	mg/kg	2.20E-01	4.85E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	HMX	mg/kg	1.40E+01	5.76E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	NITROBENZENE	mg/kg	6.50E-01	1.12E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	NITROCELLULOSE	mg/kg	5.29E+01		
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	NITROGUANIDINE	mg/kg	1.30E-01	1.76E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	RDX	mg/kg	1.80E+01	2.05E-04	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	TETRYL	mg/kg	3.00E+00	1.15E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	4,4'-DDE	mg/kg	1.18E-01	4.80E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	4,4'-DDT	mg/kg	1.05E-02	3.20E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ALPHA-CHLORDANE	mg/kg	1.19E-01	8.00E-01	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	BETA-BHC	mg/kg	1.94E-02	1.60E-04	Yes

Table L-5. Development of Preliminary CMCOPCs Based on Comparison of the SRCs Exposure Concentration with its GSSL with DAF = 1.6

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	2.16E-01	3.20E-04	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDOSULFAN II	mg/kg	4.50E-03	1.44E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDOSULFAN SULFATE	mg/kg	9.27E-02	1.44E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN	mg/kg	5.57E-01	8.00E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	9.67E-02	8.00E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN KETONE	mg/kg	1.40E-02	8.00E-02	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	GAMMA-CHLORDANE	mg/kg	4.58E-02	8.00E-01	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR	mg/kg	4.74E-02	1.60E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR EPOXIDE	mg/kg	4.35E-02	4.80E-02	
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	4.65E+01	4.26E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	1.40E+00	4.26E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	2-METHYLNAPHTHALENE	mg/kg	5.25E-01		
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	ACENAPHTHENE	mg/kg	1.31E+00	4.64E+01	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	ACENAPHTHYLENE	mg/kg	5.80E-02	8.88E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	ANTHRACENE	mg/kg	2.65E+00	9.44E+02	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	3.45E+00	1.28E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	2.91E+00	6.56E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	1.12E+01	3.20E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(G,H,I)PERYLENE	mg/kg	1.57E+00		
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(K)FLUORANTHENE	mg/kg	2.06E+00	3.20E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BIS(2-ETHYLHEXYL)PHTHALAT	mg/kg	5.68E-01	2.88E+02	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	CARBAZOLE	mg/kg	1.67E+00	4.80E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	CHRYSENE	mg/kg	4.41E+00	1.28E+01	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	7.94E-01	1.28E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZOFURAN	mg/kg	1.10E+00	6.54E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	FLUORANTHENE	mg/kg	8.04E+00	3.36E+02	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	FLUORENE	mg/kg	1.54E+00	4.48E+01	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	1.71E+00	1.12E+00	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	NAPHTHALENE	mg/kg	6.36E-01	6.40E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	PHENANTHRENE	mg/kg	7.85E+00	6.45E+01	
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	PYRENE	mg/kg	6.62E+00	3.68E+02	
Soil	Explosives Handling Areas Aggregate	Organics-Volatile	ACETONE	mg/kg	3.11E-02	1.28E+00	
Soil	Explosives Handling Areas Aggregate	Organics-Volatile	TOLUENE	mg/kg	7.03E-03	9.60E-01	
Soil	Packaging and Shipping Areas Aggregate	Metals	ALUMINUM	mg/kg	1.94E+04	8.77E+04	
Soil	Packaging and Shipping Areas Aggregate	Metals	ANTIMONY	mg/kg	1.44E+01	4.80E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	ARSENIC	mg/kg	1.37E+01	1.60E+00	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	BARIIUM	mg/kg	8.16E+02	1.31E+02	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	BERYLLIUM	mg/kg	3.40E+00	4.80E+00	

Table L-5. Development of Preliminary CMCOPCs Based on Comparison of the SRCs Exposure Concentration with its GSSL with DAF = 1.6

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Packaging and Shipping Areas Aggregate	Metals	CADMIUM	mg/kg	1.60E+01	6.40E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	CHROMIUM	mg/kg	6.35E+01	3.20E+00	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	COPPER	mg/kg	5.73E+01	7.33E+01	
Soil	Packaging and Shipping Areas Aggregate	Metals	LEAD	mg/kg	6.79E+02	3.84E+02	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	MANGANESE	mg/kg	3.26E+03	1.05E+03	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	MERCURY	mg/kg	5.90E-01	1.60E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	SILVER	mg/kg	1.19E+01	3.20E+00	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	THALLIUM	mg/kg	2.85E-01	6.40E-02	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	ZINC	mg/kg	1.54E+03	9.92E+02	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	2.20E+00	4.00E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	8.20E+02	9.12E-04	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	1.40E+00	6.40E-05	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Explosives	NITROGUANIDINE	mg/kg	1.07E-01	1.76E+00	
Soil	Packaging and Shipping Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	9.10E+01	4.26E-02	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	1.70E-01	1.28E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	2.10E-01	6.56E-01	
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	3.20E-01	3.20E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	BENZO(G,H,I)PERYLENE	mg/kg	9.90E-02		
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	BENZO(K)FLUORANTHENE	mg/kg	1.20E-01	3.20E+00	
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	BENZOIC ACID	mg/kg	2.10E-01	3.20E+01	
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	CHRYSENE	mg/kg	2.00E-01	1.28E+01	
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	FLUORANTHENE	mg/kg	4.40E-01	3.36E+02	
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	FLUORENE	mg/kg	7.40E-02	4.48E+01	
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	1.00E-01	1.12E+00	
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	PHENANTHRENE	mg/kg	2.60E-01	6.45E+01	
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	PYRENE	mg/kg	4.90E-01	3.68E+02	
Soil	Perimeter Area Aggregate	Metals	ANTIMONY	mg/kg	1.44E+00	4.80E-01	Yes
Soil	Perimeter Area Aggregate	Metals	ARSENIC	mg/kg	1.27E+01	1.60E+00	Yes
Soil	Perimeter Area Aggregate	Metals	BARIIUM	mg/kg	1.76E+02	1.31E+02	Yes
Soil	Perimeter Area Aggregate	Metals	BERYLLIUM	mg/kg	7.96E-01	4.80E+00	
Soil	Perimeter Area Aggregate	Metals	CADMIUM	mg/kg	1.16E+01	6.40E-01	Yes
Soil	Perimeter Area Aggregate	Metals	CHROMIUM	mg/kg	3.29E+01	3.20E+00	Yes
Soil	Perimeter Area Aggregate	Metals	COBALT	mg/kg	9.30E+00	1.52E+03	
Soil	Perimeter Area Aggregate	Metals	COPPER	mg/kg	2.31E+01	7.33E+01	
Soil	Perimeter Area Aggregate	Metals	CYANIDE	mg/kg	2.40E+00	3.20E+00	
Soil	Perimeter Area Aggregate	Metals	LEAD	mg/kg	3.89E+02	3.84E+02	Yes
Soil	Perimeter Area Aggregate	Metals	MANGANESE	mg/kg	9.39E+02	1.05E+03	
Soil	Perimeter Area Aggregate	Metals	MERCURY	mg/kg	5.25E-02	1.60E-01	

Table L-5. Development of Preliminary CMCOPCs Based on Comparison of the SRCs Exposure Concentration with its GSSL with DAF = 1.6

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Perimeter Area Aggregate	Metals	NICKEL	mg/kg	1.83E+01	1.12E+01	Yes
Soil	Perimeter Area Aggregate	Metals	SELENIUM	mg/kg	1.44E+00	4.80E-01	Yes
Soil	Perimeter Area Aggregate	Metals	SILVER	mg/kg	2.90E-01	3.20E+00	
Soil	Perimeter Area Aggregate	Metals	THALLIUM	mg/kg	3.14E-01	6.40E-02	Yes
Soil	Perimeter Area Aggregate	Metals	ZINC	mg/kg	2.43E+02	9.92E+02	
Soil	Perimeter Area Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	7.23E-01	4.00E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	1,3-DINITROBENZENE	mg/kg	8.20E-02	1.54E-03	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	5.00E+02	9.12E-04	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	5.76E-01	6.40E-05	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	2-AMINO-4,6-DINITROTOLUENE	mg/kg	7.90E+00		
Soil	Perimeter Area Aggregate	Organics-Explosives	4-AMINO-2,6-DINITROTOLUENE	mg/kg	6.02E+00		
Soil	Perimeter Area Aggregate	Organics-Explosives	HMX	mg/kg	4.48E+00	5.76E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	NITROCELLULOSE	mg/kg	6.07E+01		
Soil	Perimeter Area Aggregate	Organics-Explosives	NITROGUANIDINE	mg/kg	5.10E+00	1.76E+00	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	RDX	mg/kg	2.87E+01	2.05E-04	Yes
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	4,4'-DDE	mg/kg	3.20E+00	4.80E+00	
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	2.00E-02	3.20E-04	Yes
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	1.70E+00	8.00E-02	Yes
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	GAMMA-CHLORDANE	mg/kg	7.10E-01	8.00E-01	
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	HEPTACHLOR	mg/kg	1.80E-01	1.60E+00	
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	METHOXYCHLOR	mg/kg	4.30E-01	1.28E+01	
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	4.18E+01	4.26E-02	Yes
Soil	Perimeter Area Aggregate	Organics-Semivolatile	ANTHRACENE	mg/kg	1.50E-01	9.44E+02	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	6.90E-01	1.28E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	7.00E-01	6.56E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	9.80E-01	3.20E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BENZO(G,H,I)PERYLENE	mg/kg	3.60E-01		
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BENZO(K)FLUORANTHENE	mg/kg	3.50E-01	3.20E+00	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	1.10E-01	2.88E+02	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	CHRYSENE	mg/kg	7.60E-01	1.28E+01	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	DI-N-BUTYL PHTHALATE	mg/kg	3.10E-01	4.32E+02	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	9.70E-02	1.28E-01	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	FLUORANTHENE	mg/kg	1.20E+00	3.36E+02	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	3.50E-01	1.12E+00	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	PHENANTHRENE	mg/kg	5.00E-01	6.45E+01	
Soil	Perimeter Area Aggregate	Organics-Semivolatile	PYRENE	mg/kg	1.20E+00	3.68E+02	
Soil	Perimeter Area Aggregate	Organics-Volatile	BENZENE	mg/kg	1.90E-03	3.20E-03	
Soil	Perimeter Area Aggregate	Organics-Volatile	TOLUENE	mg/kg	8.71E-03	9.60E-01	

Table L-5. Development of Preliminary CMCOPCs Based on Comparison of the SRCs Exposure Concentration with its GSSL with DAF = 1.6

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Preparation and Receiving Areas Aggregate	Metals	ANTIMONY	mg/kg	4.34E+00	4.80E-01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	ARSENIC	mg/kg	1.40E+01	1.60E+00	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	BARIUM	mg/kg	1.42E+02	1.31E+02	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	BERYLLIUM	mg/kg	1.04E+00	4.80E+00	
Soil	Preparation and Receiving Areas Aggregate	Metals	CADMIUM	mg/kg	6.01E+00	6.40E-01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	CHROMIUM	mg/kg	2.14E+01	3.20E+00	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	COBALT	mg/kg	7.67E+00	1.52E+03	
Soil	Preparation and Receiving Areas Aggregate	Metals	COPPER	mg/kg	9.14E+01	7.33E+01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	CYANIDE	mg/kg	4.67E-01	3.20E+00	
Soil	Preparation and Receiving Areas Aggregate	Metals	LEAD	mg/kg	2.90E+02	3.84E+02	
Soil	Preparation and Receiving Areas Aggregate	Metals	MANGANESE	mg/kg	7.40E+02	1.05E+03	
Soil	Preparation and Receiving Areas Aggregate	Metals	MERCURY	mg/kg	8.41E-02	1.60E-01	
Soil	Preparation and Receiving Areas Aggregate	Metals	NICKEL	mg/kg	1.86E+01	1.12E+01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	SILVER	mg/kg	2.90E-01	3.20E+00	
Soil	Preparation and Receiving Areas Aggregate	Metals	THALLIUM	mg/kg	5.60E-01	6.40E-02	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	ZINC	mg/kg	1.90E+02	9.92E+02	
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	4.40E-01	9.12E-04	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	2-AMINO-4,6-DINITROTOLUENE	mg/kg	2.36E-01		
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	4-AMINO-2,6-DINITROTOLUENE	mg/kg	0.37		
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	HMX	mg/kg	1.01	0.576	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	NITROCELLULOSE	mg/kg	27.90		
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	NITROGUANIDINE	mg/kg	0.08	1.76	
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	RDX	mg/kg	8.99	0.0002048	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Pesticide/PCB	4,4'-DDE	mg/kg	0.01	4.8	
Soil	Preparation and Receiving Areas Aggregate	Organics-Pesticide/PCB	4,4'-DDT	mg/kg	0.05	3.2	
Soil	Preparation and Receiving Areas Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	0.01	0.08	
Soil	Preparation and Receiving Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR	mg/kg	0.00	1.6	
Soil	Preparation and Receiving Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	11.74	0.04256	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	0.23	0.04256	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	ANTHRACENE	mg/kg	0.09	944	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	0.35	0.128	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	0.37	0.656	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	0.47	0.32	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BENZO(G,H,I)PERYLENE	mg/kg	0.28		
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BENZO(K)FLUORANTHENE	mg/kg	0.30	3.2	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BIS(2-ETHYLHEXYL)PHTHALAT	mg/kg	0.24	288	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BUTYL BENZYL PHTHALATE	mg/kg	0.09	1296	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	CHRYSENE	mg/kg	0.35	12.8	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	DI-N-BUTYL PHTHALATE	mg/kg	0.22	432	

Table L-5. Development of Preliminary CMCOPCs Based on Comparison of the SRCs Exposure Concentration with its GSSL with DAF = 1.6

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	0.08	0.128	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	FLUORANTHENE	mg/kg	0.50	336	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	FLUORENE	mg/kg	0.06	44.8	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	0.23	1.12	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	PHENANTHRENE	mg/kg	0.19	64.48	
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	PYRENE	mg/kg	0.51	368	
Soil	Preparation and Receiving Areas Aggregate	Organics-Volatile	2-BUTANONE	mg/kg	0.01	7.04	
Soil	Preparation and Receiving Areas Aggregate	Organics-Volatile	ACETONE	mg/kg	0.03	1.28	
Soil	Preparation and Receiving Areas Aggregate	Organics-Volatile	METHYLENE CHLORIDE	mg/kg	0.00	0.0016	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Volatile	TOLUENE	mg/kg	0.00	0.96	
Soil	West Ditches Aggregate	Metals	ANTIMONY	mg/kg	45.83	0.48	Yes
Soil	West Ditches Aggregate	Metals	ARSENIC	mg/kg	16.82	1.6	Yes
Soil	West Ditches Aggregate	Metals	BARIUM	mg/kg	101.60	131.2	
Soil	West Ditches Aggregate	Metals	BERYLLIUM	mg/kg	1.01	4.8	
Soil	West Ditches Aggregate	Metals	CADMIUM	mg/kg	0.96	0.64	Yes
Soil	West Ditches Aggregate	Metals	CHROMIUM	mg/kg	31.11	3.2	Yes
Soil	West Ditches Aggregate	Metals	COBALT	mg/kg	15.99	1518.4	
Soil	West Ditches Aggregate	Metals	COPPER	mg/kg	286.80	73.28	Yes
Soil	West Ditches Aggregate	Metals	LEAD	mg/kg	175.60	384	
Soil	West Ditches Aggregate	Metals	MANGANESE	mg/kg	1975.00	1051.2	Yes
Soil	West Ditches Aggregate	Metals	MERCURY	mg/kg	0.18	0.16	Yes
Soil	West Ditches Aggregate	Metals	NICKEL	mg/kg	21.87	11.2	Yes
Soil	West Ditches Aggregate	Metals	SELENIUM	mg/kg	2.18	0.48	Yes
Soil	West Ditches Aggregate	Metals	SILVER	mg/kg	0.62	3.2	
Soil	West Ditches Aggregate	Metals	THALLIUM	mg/kg	0.30	0.064	Yes
Soil	West Ditches Aggregate	Metals	ZINC	mg/kg	315.80	992	
Soil	West Ditches Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	0.22	0.4	
Soil	West Ditches Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	31.58	0.000912	Yes
Soil	West Ditches Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	0.05	0.000064	Yes
Soil	West Ditches Aggregate	Organics-Explosives	2-AMINO-4,6-DINITROTOLUENE	mg/kg	3.20		
Soil	West Ditches Aggregate	Organics-Explosives	4-AMINO-2,6-DINITROTOLUENE	mg/kg	0.82		
Soil	West Ditches Aggregate	Organics-Explosives	NITROGUANIDINE	mg/kg	0.04	1.76	
Soil	West Ditches Aggregate	Organics-Miscellaneous	TOTAL ORGANIC CARBON	mg/kg	28330.00		
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	4,4'-DDE	mg/kg	0.11	4.8	
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	BETA-BHC	mg/kg	0.09	0.00016	Yes
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	0.06	0.00032	Yes
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	0.04	0.08	
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	ENDRIN KETONE	mg/kg	0.02	0.08	

Table L-5. Development of Preliminary CMCOPCs Based on Comparison of the SRCs Exposure Concentration with its GSSL with DAF = 1.6

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	GAMMA-CHLORDANE	mg/kg	0.05	0.8	
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	36.00	0.04256	Yes
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	0.22	0.04256	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	ACENAPHTHENE	mg/kg	0.18	46.4	
Soil	West Ditches Aggregate	Organics-Semivolatile	ACENAPHTHYLENE	mg/kg	0.21	8.88	
Soil	West Ditches Aggregate	Organics-Semivolatile	ANTHRACENE	mg/kg	0.86	944	
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	5.30	0.128	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	4.50	0.656	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	6.50	0.32	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZO(G,H,I)PERYLENE	mg/kg	1.60		
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZO(K)FLUORANTHENE	mg/kg	2.60	3.2	
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZOIC ACID	mg/kg	0.30	32	
Soil	West Ditches Aggregate	Organics-Semivolatile	CARBAZOLE	mg/kg	0.29	0.048	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	CHRYSENE	mg/kg	5.50	12.8	
Soil	West Ditches Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	0.67	0.128	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	DIBENZOFURAN	mg/kg	0.11	0.6544	
Soil	West Ditches Aggregate	Organics-Semivolatile	FLUORANTHENE	mg/kg	10.00	336	
Soil	West Ditches Aggregate	Organics-Semivolatile	FLUORENE	mg/kg	0.32	44.8	
Soil	West Ditches Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	1.90	1.12	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	PHENANTHRENE	mg/kg	3.30	64.48	
Soil	West Ditches Aggregate	Organics-Semivolatile	PYRENE	mg/kg	8.00	368	

= Benzene hexachloride

t migration contaminant of potential concern

lorodiphenyldichloroethylene

lorodiphenyltrichloroethane

Defense Logistics Agency

GSSL * DAF = Generic soil screening level multiplied by a dilution attenuation factor of 1.6.

HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.

PCB = Polychlorinated biphenyl.

RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.

SRC = Site-related contaminant.

Table L-6. List of Preliminary CMCOPCs (Extracted from Table L-5)

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Change Houses Aggregate	Metals	BARIUM	mg/kg	2.05E+02	1.31E+02	Yes
Soil	Change Houses Aggregate	Metals	CADMIUM	mg/kg	9.02E-01	6.40E-01	Yes
Soil	Change Houses Aggregate	Metals	CHROMIUM	mg/kg	1.72E+01	3.20E+00	Yes
Soil	Change Houses Aggregate	Metals	MANGANESE	mg/kg	1.97E+03	1.05E+03	Yes
Soil	Change Houses Aggregate	Metals	NICKEL	mg/kg	1.85E+01	1.12E+01	Yes
Soil	Change Houses Aggregate	Metals	SILVER	mg/kg	4.52E+00	3.20E+00	Yes
Soil	Change Houses Aggregate	Metals	THALLIUM	mg/kg	3.40E-01	6.40E-02	Yes
Soil	Change Houses Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	6.30E+00	4.26E-02	Yes
Soil	DLA Tanks Aggregate	Metals	ANTIMONY	mg/kg	7.57E+02	4.80E-01	Yes
Soil	DLA Tanks Aggregate	Metals	ARSENIC	mg/kg	1.23E+01	1.60E+00	Yes
Soil	DLA Tanks Aggregate	Metals	CADMIUM	mg/kg	8.72E-01	6.40E-01	Yes
Soil	DLA Tanks Aggregate	Metals	CHROMIUM	mg/kg	2.94E+01	3.20E+00	Yes
Soil	DLA Tanks Aggregate	Metals	MANGANESE	mg/kg	1.30E+03	1.05E+03	Yes
Soil	DLA Tanks Aggregate	Metals	NICKEL	mg/kg	1.57E+01	1.12E+01	Yes
Soil	DLA Tanks Aggregate	Metals	SELENIUM	mg/kg	1.30E+00	4.80E-01	Yes
Soil	DLA Tanks Aggregate	Metals	THALLIUM	mg/kg	5.76E-01	6.40E-02	Yes
Soil	DLA Tanks Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	8.26E-03	3.20E-04	Yes
Soil	Explosives Handling Areas Aggregate	Metals	ANTIMONY	mg/kg	5.11E+00	4.80E-01	Yes
Soil	Explosives Handling Areas Aggregate	Metals	ARSENIC	mg/kg	1.33E+01	1.60E+00	Yes
Soil	Explosives Handling Areas Aggregate	Metals	BARIUM	mg/kg	1.36E+02	1.31E+02	Yes
Soil	Explosives Handling Areas Aggregate	Metals	CADMIUM	mg/kg	1.74E+00	6.40E-01	Yes
Soil	Explosives Handling Areas Aggregate	Metals	CHROMIUM	mg/kg	2.60E+01	3.20E+00	Yes
Soil	Explosives Handling Areas Aggregate	Metals	NICKEL	mg/kg	2.14E+01	1.12E+01	Yes
Soil	Explosives Handling Areas Aggregate	Metals	SELENIUM	mg/kg	1.11E+00	4.80E-01	Yes
Soil	Explosives Handling Areas Aggregate	Metals	THALLIUM	mg/kg	4.81E-01	6.40E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	4.49E+00	4.00E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	1,3-DINITROBENZENE	mg/kg	4.70E+00	1.54E-03	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	1.28E+04	9.12E-04	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	6.83E+00	6.40E-05	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	2,6-DINITROTOLUENE	mg/kg	2.30E-01	6.72E-05	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	4-NITROTOLUENE	mg/kg	2.20E-01	4.85E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	HMX	mg/kg	1.40E+01	5.76E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	NITROBENZENE	mg/kg	6.50E-01	1.12E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	RDX	mg/kg	1.80E+01	2.05E-04	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Explosives	TETRYL	mg/kg	3.00E+00	1.15E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	BETA-BHC	mg/kg	1.94E-02	1.60E-04	Yes

Table L-6. List of Preliminary CMCOPCs (Extracted from Table L-5)

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	2.16E-01	3.20E-04	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN	mg/kg	5.57E-01	8.00E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	9.67E-02	8.00E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	4.65E+01	4.26E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	1.40E+00	4.26E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	3.45E+00	1.28E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	2.91E+00	6.56E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	1.12E+01	3.20E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	CARBAZOLE	mg/kg	1.67E+00	4.80E-02	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	7.94E-01	1.28E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZOFURAN	mg/kg	1.10E+00	6.54E-01	Yes
Soil	Explosives Handling Areas Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	1.71E+00	1.12E+00	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	ANTIMONY	mg/kg	1.44E+01	4.80E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	ARSENIC	mg/kg	1.37E+01	1.60E+00	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	BARIUM	mg/kg	8.16E+02	1.31E+02	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	CADMIUM	mg/kg	1.60E+01	6.40E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	CHROMIUM	mg/kg	6.35E+01	3.20E+00	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	LEAD	mg/kg	6.79E+02	3.84E+02	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	MANGANESE	mg/kg	3.26E+03	1.05E+03	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	MERCURY	mg/kg	5.90E-01	1.60E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	SILVER	mg/kg	1.19E+01	3.20E+00	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	THALLIUM	mg/kg	2.85E-01	6.40E-02	Yes
Soil	Packaging and Shipping Areas Aggregate	Metals	ZINC	mg/kg	1.54E+03	9.92E+02	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	2.20E+00	4.00E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	8.20E+02	9.12E-04	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	1.40E+00	6.40E-05	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	9.10E+01	4.26E-02	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	1.70E-01	1.28E-01	Yes
Soil	Packaging and Shipping Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	3.20E-01	3.20E-01	Yes
Soil	Perimeter Area Aggregate	Metals	ANTIMONY	mg/kg	1.44E+00	4.80E-01	Yes
Soil	Perimeter Area Aggregate	Metals	ARSENIC	mg/kg	1.27E+01	1.60E+00	Yes
Soil	Perimeter Area Aggregate	Metals	BARIUM	mg/kg	1.76E+02	1.31E+02	Yes
Soil	Perimeter Area Aggregate	Metals	CADMIUM	mg/kg	1.16E+01	6.40E-01	Yes
Soil	Perimeter Area Aggregate	Metals	CHROMIUM	mg/kg	3.29E+01	3.20E+00	Yes
Soil	Perimeter Area Aggregate	Metals	LEAD	mg/kg	3.89E+02	3.84E+02	Yes
Soil	Perimeter Area Aggregate	Metals	NICKEL	mg/kg	1.83E+01	1.12E+01	Yes

Table L-6. List of Preliminary CMCOPCs (Extracted from Table L-5)

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	Perimeter Area Aggregate	Metals	SELENIUM	mg/kg	1.44E+00	4.80E-01	Yes
Soil	Perimeter Area Aggregate	Metals	THALLIUM	mg/kg	3.14E-01	6.40E-02	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	7.23E-01	4.00E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	1,3-DINITROBENZENE	mg/kg	8.20E-02	1.54E-03	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	5.00E+02	9.12E-04	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	5.76E-01	6.40E-05	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	HMX	mg/kg	4.48E+00	5.76E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	NITROGUANIDINE	mg/kg	5.10E+00	1.76E+00	Yes
Soil	Perimeter Area Aggregate	Organics-Explosives	RDX	mg/kg	2.87E+01	2.05E-04	Yes
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	2.00E-02	3.20E-04	Yes
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	1.70E+00	8.00E-02	Yes
Soil	Perimeter Area Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	4.18E+01	4.26E-02	Yes
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	6.90E-01	1.28E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	7.00E-01	6.56E-01	Yes
Soil	Perimeter Area Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	9.80E-01	3.20E-01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	ANTIMONY	mg/kg	4.34E+00	4.80E-01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	ARSENIC	mg/kg	1.40E+01	1.60E+00	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	BARIUM	mg/kg	1.42E+02	1.31E+02	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	CADMIUM	mg/kg	6.01E+00	6.40E-01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	CHROMIUM	mg/kg	2.14E+01	3.20E+00	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	COPPER	mg/kg	9.14E+01	7.33E+01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	NICKEL	mg/kg	1.86E+01	1.12E+01	Yes
Soil	Preparation and Receiving Areas Aggregate	Metals	THALLIUM	mg/kg	5.60E-01	6.40E-02	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	4.40E-01	9.12E-04	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	HMX	mg/kg	1.01E+00	5.76E-01	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Explosives	RDX	mg/kg	8.99E+00	2.05E-04	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	1.17E+01	4.26E-02	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	2.30E-01	4.26E-02	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	3.46E-01	1.28E-01	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	4.69E-01	3.20E-01	Yes
Soil	Preparation and Receiving Areas Aggregate	Organics-Volatile	METHYLENE CHLORIDE	mg/kg	4.00E-03	1.60E-03	Yes
Soil	West Ditches Aggregate	Metals	ANTIMONY	mg/kg	45.82	0.48	Yes
Soil	West Ditches Aggregate	Metals	ARSENIC	mg/kg	16.82	1.6	Yes
Soil	West Ditches Aggregate	Metals	CADMIUM	mg/kg	0.96	0.64	Yes
Soil	West Ditches Aggregate	Metals	CHROMIUM	mg/kg	31.11	3.2	Yes
Soil	West Ditches Aggregate	Metals	COPPER	mg/kg	286.80	73.28	Yes

Table L-6. List of Preliminary CMCOPCs (Extracted from Table L-5)

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	West Ditches Aggregate	Metals	MANGANESE	mg/kg	1975.00	1051.2	Yes
Soil	West Ditches Aggregate	Metals	MERCURY	mg/kg	0.18	0.16	Yes
Soil	West Ditches Aggregate	Metals	NICKEL	mg/kg	21.87	11.2	Yes
Soil	West Ditches Aggregate	Metals	SELENIUM	mg/kg	2.18	0.48	Yes
Soil	West Ditches Aggregate	Metals	THALLIUM	mg/kg	0.30	0.064	Yes
Soil	West Ditches Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	31.58	0.000912	Yes
Soil	West Ditches Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	0.05	0.000064	Yes
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	BETA-BHC	mg/kg	0.09	0.00016	Yes
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	0.06	0.00032	Yes
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	36.00	0.04256	Yes
Soil	West Ditches Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	0.22	0.04256	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	5.30	0.128	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	4.50	0.656	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	6.50	0.32	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	CARBAZOLE	mg/kg	0.29	0.048	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	0.67	0.128	Yes
Soil	West Ditches Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	1.90	1.12	Yes

= Benzene hexachloride

: migration contaminant of potential concern

Defense Logistics Agency

GSSL * DAF = Generic soil screening level multiplied by a dilution attenuation factor of 1.6.

HMX = Octahydro-1,3,5,7-trinitro-1,3,5,7-tetrazocine.

PCB = Polychlorinated biphenyl.

RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.

Table L-7. Development of Preliminary CMCOPCs Based on Comparison of the SRC Exposure Concentration with its GSSL with DAF = 1.6 Exclusively for the Explosive Handling Area Aggregate

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	ALUMINUM	mg/kg	9.45E+03	8.77E+04	
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	ANTIMONY	mg/kg	2.60E+01	4.80E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	ARSENIC	mg/kg	1.63E+01	1.60E+00	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	BARIIUM	mg/kg	2.70E+02	1.31E+02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	BERYLLIUM	mg/kg	1.19E+00	4.80E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	CADMIUM	mg/kg	5.19E+00	6.40E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	CHROMIUM	mg/kg	5.65E+01	3.20E+00	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	COBALT	mg/kg	1.26E+01	1.52E+03	
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	COPPER	mg/kg	6.65E+01	7.33E+01	
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	CYANIDE	mg/kg	2.10E-01	3.20E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	LEAD	mg/kg	3.91E+02	3.84E+02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	MANGANESE	mg/kg	1.11E+03	1.05E+03	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	MERCURY	mg/kg	1.11E-01	1.60E-01	
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	NICKEL	mg/kg	3.16E+01	1.12E+01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	SELENIUM	mg/kg	1.64E+00	4.80E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	SILVER	mg/kg	5.54E-01	3.20E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	THALLIUM	mg/kg	5.15E-01	6.40E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	ZINC	mg/kg	2.78E+02	9.92E+02	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	8.45E-01	4.00E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	1,3-DINITROBENZENE	mg/kg	2.66E-01	1.54E-03	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	3.33E+03	9.12E-04	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	8.30E-02	6.40E-05	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	2,6-DINITROTOLUENE	mg/kg	2.63E-01	6.72E-05	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	2-AMINO-4,6-DINITROTOLUENE	mg/kg	2.51E+00		
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	4-AMINO-2,6-DINITROTOLUENE	mg/kg	1.30E+00		
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	4-NITROTOLUENE	mg/kg	2.50E-01	4.85E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	HMX	mg/kg	1.07E+00	5.76E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	NITROBENZENE	mg/kg	1.50E-01	1.12E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	NITROCELLULOSE	mg/kg	9.60E+00		
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	NITROGUANIDINE	mg/kg	3.42E-01	1.76E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	RDX	mg/kg	1.70E-01	2.05E-04	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	TETRYL	mg/kg	4.13E-01	1.15E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	4,4'-DDE	mg/kg	7.00E-02	4.80E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	4,4'-DDT	mg/kg	1.19E-01	3.20E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ALPHA-CHLORDANE	mg/kg	5.90E-01	8.00E-01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	BETA-BHC	mg/kg	3.00E-02	1.60E-04	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	9.44E-02	3.20E-04	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDOSULFAN II	mg/kg	6.42E-02	1.44E+00	

Table L-7. Development of Preliminary CMCOPCs Based on Comparison of the SRC Exposure Concentration with its GSSL with DAF = 1.6 Exclusively for the Explosive Handling Area Aggregate

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDOSULFAN SULFATE	mg/kg	1.10E-01	1.44E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN	mg/kg	3.20E+00	8.00E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	7.76E-02	8.00E-02	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN KETONE	mg/kg	7.79E-02	8.00E-02	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	GAMMA-CHLORDANE	mg/kg	1.10E-01	8.00E-01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR	mg/kg	9.80E-02	1.60E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR EPOXIDE	mg/kg	9.40E-02	4.80E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	1.10E+03	4.26E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	8.70E-01	4.26E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	2-METHYLNAPHTHALENE	mg/kg	2.82E-01		
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	ACENAPHTHENE	mg/kg	2.11E-01	4.64E+01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	ACENAPHTHYLENE	mg/kg	1.67E-01	8.88E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	ANTHRACENE	mg/kg	2.32E-01	9.44E+02	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	7.70E-02	1.28E-01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	3.60E-02	6.56E-01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	1.30E-01	3.20E-01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(G,H,I)PERYLENE	mg/kg	3.30E-01		
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(K)FLUORANTHENE	mg/kg	3.80E-02	3.20E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	BIS(2-ETHYLHEXYL)PHTHALAT	mg/kg	1.00E-01	2.88E+02	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	CARBAZOLE	mg/kg	2.83E-01	4.80E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	CHRYSENE	mg/kg	9.50E-02	1.28E+01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	2.77E-01	1.28E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZOFURAN	mg/kg	3.11E-01	6.54E-01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	FLUORANTHENE	mg/kg	9.80E-02	3.36E+02	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	FLUORENE	mg/kg	2.58E-01	4.48E+01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	2.61E-01	1.12E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	NAPHTHALENE	mg/kg	2.46E-01	6.40E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	PHENANTHRENE	mg/kg	3.52E-01	6.45E+01	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	PYRENE	mg/kg	1.20E-01	3.68E+02	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Volatile	ACETONE	mg/kg	2.74E-02	1.28E+00	
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Volatile	TOLUENE	mg/kg	1.03E-02	9.60E-01	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	ALUMINUM	mg/kg	9.55E+03	8.77E+04	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	ANTIMONY	mg/kg	8.47E-01	4.80E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	ARSENIC	mg/kg	1.30E+01	1.60E+00	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	BARIUM	mg/kg	1.33E+02	1.31E+02	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	BERYLLIUM	mg/kg	7.00E-01	4.80E+00	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	CADMIUM	mg/kg	2.14E+00	6.40E-01	Yes

Table L-7. Development of Preliminary CMCOPCs Based on Comparison of the SRC Exposure Concentration with its GSSL with DAF = 1.6 Exclusively for the Explosive Handling Area Aggregate

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	CHROMIUM	mg/kg	2.54E+01	3.20E+00	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	COBALT	mg/kg	1.22E+01	1.52E+03	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	COPPER	mg/kg	6.69E+01	7.33E+01	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	CYANIDE	mg/kg	2.00E-01	3.20E+00	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	LEAD	mg/kg	3.35E+02	3.84E+02	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	MANGANESE	mg/kg	5.99E+02	1.05E+03	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	MERCURY	mg/kg	5.58E-02	1.60E-01	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	NICKEL	mg/kg	2.68E+01	1.12E+01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	SELENIUM	mg/kg	9.68E-01	4.80E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	SILVER	mg/kg	3.66E-01	3.20E+00	
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	THALLIUM	mg/kg	5.60E-01	6.40E-02	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	ZINC	mg/kg	1.86E+02	9.92E+02	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	1.86E+00	4.00E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	1,3-DINITROBENZENE	mg/kg	2.10E+00	1.54E-03	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	5.50E+03	9.12E-04	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	2.31E+00	6.40E-05	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	2,6-DINITROTOLUENE	mg/kg	1.04E+00	6.72E-05	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	2-AMINO-4,6-DINITROTOLUENE	mg/kg	5.00E+00		
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	4-AMINO-2,6-DINITROTOLUENE	mg/kg	6.50E+00		
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	4-NITROTOLUENE	mg/kg	2.40E+00	4.85E-02	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	HMX	mg/kg	2.40E+00	5.76E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	NITROBENZENE	mg/kg	4.60E-01	1.12E-02	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	NITROCELLULOSE	mg/kg	0.00E+00		
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	NITROGUANIDINE	mg/kg	1.30E-01	1.76E+00	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	RDX	mg/kg	1.16E+01	2.05E-04	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	TETRYL	mg/kg	4.72E-01	1.15E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	4,4'-DDE	mg/kg	5.50E-01	4.80E+00	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	4,4'-DDT	mg/kg	1.10E-02	3.20E+00	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ALPHA-CHLORDANE	mg/kg	9.67E-02	8.00E-01	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	BETA-BHC	mg/kg	5.74E-02	1.60E-04	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	1.20E+00	3.20E-04	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDOSULFAN II	mg/kg	4.50E-03	1.44E+00	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDOSULFAN SULFATE	mg/kg	5.10E-01	1.44E+00	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN	mg/kg	1.00E-02	8.00E-02	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	5.10E-01	8.00E-02	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN KETONE	mg/kg	9.33E-02	8.00E-02	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	GAMMA-CHLORDANE	mg/kg	1.40E-01	8.00E-01	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR	mg/kg	1.80E-01	1.60E+00	

Table L-7. Development of Preliminary CMCOPCs Based on Comparison of the SRC Exposure Concentration with its GSSL with DAF = 1.6 Exclusively for the Explosive Handling Area Aggregate

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR EPOXIDE	mg/kg	8.15E-02	4.80E-02	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	10.11	0.04256	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	0.39	0.04256	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	2-METHYLNAPHTHALENE	mg/kg	0.29		
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	ACENAPHTHENE	mg/kg	0.10	46.4	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	ACENAPHTHYLENE	mg/kg	0.05	8.88	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	ANTHRACENE	mg/kg	0.32	944	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	1.06	0.128	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	0.91	0.656	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	1.10	0.32	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(G,H,I)PERYLENE	mg/kg	0.40		
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(K)FLUORANTHENE	mg/kg	0.87	3.2	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BIS(2-ETHYLHEXYL)PHTHALAT	mg/kg	0.12	288	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	CARBAZOLE	mg/kg	0.25	0.048	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	CHRYSENE	mg/kg	1.29	12.8	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	0.25	0.128	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZOFURAN	mg/kg	0.06	0.6544	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	FLUORANTHENE	mg/kg	1.89	336	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	FLUORENE	mg/kg	0.09	44.8	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	INDENO(1,2,3-CD)PYRENE	mg/kg	0.44	1.12	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	NAPHTHALENE	mg/kg	0.04	6.4	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	PHENANTHRENE	mg/kg	1.04	64.48	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	PYRENE	mg/kg	1.51	368	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Volatile	ACETONE	mg/kg	0.01	1.28	
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Volatile	TOLUENE	mg/kg	0.01	0.96	

BHC = Benzene hexachloride.

CMCOPC = Contaminant migration contaminant of potential concern.

DDE = Dichlorodiphenyldichloroethylene.

DDT = Dichlorodiphenyltrichloroethane.

GSSL * DAF = Generic soil screening level multiplied by a dilution attenuation factor of 1.6.

HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.

PCB = Polychlorinated biphenyl.

RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.

SRC = Site-related contaminant.

Table L-8. List of Preliminary CMCOPCs (Extracted from Table L-7)

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	ANTIMONY	mg/kg	2.60E+01	4.80E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	ARSENIC	mg/kg	1.63E+01	1.60E+00	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	BARIUM	mg/kg	2.70E+02	1.31E+02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	CADMIUM	mg/kg	5.19E+00	6.40E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	CHROMIUM	mg/kg	5.65E+01	3.20E+00	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	LEAD	mg/kg	3.91E+02	3.84E+02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	MANGANESE	mg/kg	1.11E+03	1.05E+03	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	NICKEL	mg/kg	3.16E+01	1.12E+01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	SELENIUM	mg/kg	1.64E+00	4.80E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Metals	THALLIUM	mg/kg	5.15E-01	6.40E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	8.45E-01	4.00E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	1,3-DINITROBENZENE	mg/kg	2.66E-01	1.54E-03	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	3.33E+03	9.12E-04	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	8.30E-02	6.40E-05	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	2,6-DINITROTOLUENE	mg/kg	2.63E-01	6.72E-05	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	4-NITROTOLUENE	mg/kg	2.50E-01	4.85E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	HMX	mg/kg	1.07E+00	5.76E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	NITROBENZENE	mg/kg	1.50E-01	1.12E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	RDX	mg/kg	1.70E-01	2.05E-04	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Explosives	TETRYL	mg/kg	4.13E-01	1.15E-01	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	BETA-BHC	mg/kg	3.00E-02	1.60E-04	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	9.44E-02	3.20E-04	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN	mg/kg	3.20E+00	8.00E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR EPOXIDE	mg/kg	9.40E-02	4.80E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	1.10E+03	4.26E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	8.70E-01	4.26E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	CARBAZOLE	mg/kg	2.83E-01	4.80E-02	Yes
Soil	EB-4: Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	2.77E-01	1.28E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	ANTIMONY	mg/kg	8.47E-01	4.80E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	ARSENIC	mg/kg	1.30E+01	1.60E+00	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	BARIUM	mg/kg	1.33E+02	1.31E+02	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	CADMIUM	mg/kg	2.14E+00	6.40E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	CHROMIUM	mg/kg	2.54E+01	3.20E+00	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	NICKEL	mg/kg	2.68E+01	1.12E+01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	SELENIUM	mg/kg	9.68E-01	4.80E-01	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Metals	THALLIUM	mg/kg	0.56	0.064	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	1,3,5-TRINITROBENZENE	mg/kg	1.86	0.4	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	1,3-DINITROBENZENE	mg/kg	2.10	0.001536	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	2,4,6-TRINITROTOLUENE	mg/kg	5500.00	0.000912	Yes

Table L-8. List of Preliminary CMCOPCs (Extracted from Table L-7)

Media	Group	Analysis Type	Analyte	Units	Exposure Concentration	GSSL*DAF	Preliminary CMCOPC ?
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	2,4-DINITROTOLUENE	mg/kg	2.31	0.000064	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	2,6-DINITROTOLUENE	mg/kg	1.04	0.0000672	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	4-NITROTOLUENE	mg/kg	2.40	0.04848	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	HMX	mg/kg	2.40	0.576	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	NITROBENZENE	mg/kg	0.46	0.0112	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	RDX	mg/kg	11.57	0.0002048	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Explosives	TETRYL	mg/kg	0.47	0.1152	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	BETA-BHC	mg/kg	0.06	0.00016	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	DIELDRIN	mg/kg	1.20	0.00032	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN ALDEHYDE	mg/kg	0.51	0.08	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	ENDRIN KETONE	mg/kg	0.09	0.08	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	HEPTACHLOR EPOXIDE	mg/kg	0.08	0.048	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1254	mg/kg	10.11	0.04256	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Pesticide/PCB	PCB-1260	mg/kg	0.39	0.04256	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZ(A)ANTHRACENE	mg/kg	1.06	0.128	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(A)PYRENE	mg/kg	0.91	0.656	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	BENZO(B)FLUORANTHENE	mg/kg	1.10	0.32	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	CARBAZOLE	mg/kg	0.25	0.048	Yes
Soil	EB-4A: Explosives Handling Areas Aggregate	Organics-Semivolatile	DIBENZ(A,H)ANTHRACENE	mg/kg	0.25	0.128	Yes

BHC = Benzene hexachloride.

CMCOPC = Contaminant migration contaminant of potential concern.

GSSL * DAF = Generic soil screening level multiplied by a dilution attenuation factor of 1.6.

HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.

PCB = Polychlorinated biphenyl.

RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.

Table L-9. Development of Final CMCOPCs based on Arrival Time <= 1,000 years

$$R = 1 + \frac{\rho_b K_d}{\theta_w}$$

$$T = L_z \theta_w R / q$$

Parameter	Symbol	Value	Units	Notes
Percolation rate	q	0.4900	ft/yr	HELP Model run
Soil-water distribution coefficient	K _d	Constituent-specific	L/kg	Literature
Organic carbon distribution coefficient	K _{oc}	Constituent-specific	L/kg	Literature
Fraction organic carbon	f _{oc}	0.0240	Unitless	
Water filled soil porosity	q _w	0.3330	Unitless	Site-specific (Moisture Content by Weight=18.5%)
Bulk density (dry)	r _b	1.8000	gm/cm ³	Site-specific
Leaching zone	L _z	19.5000	ft	
Retardation factor	R	Constituent-specific	unitless	Calculated
Arrival time	T	Constituent-specific	year	Calculated

Chemicals of Interest		K _{oc} (L/kg)		K _d (L/kg)		R	T (yr)	T < 1,000?
Metals and Inorganic Compounds								
Antimony				4.50E+01	a	2.44E+02	3.24E+03	
Arsenic				2.90E+01	a	1.58E+02	2.09E+03	
Barium				4.10E+01	a	2.23E+02	2.95E+03	
Cadmium				7.50E+01	d	4.06E+02	5.39E+03	
Chromium (total)				1.90E+01	a	1.04E+02	1.37E+03	
Lead				1.60E+04	c	8.65E+04	1.15E+06	
Manganese				7.50E+02	c	4.06E+03	5.37E+04	
Nickel				6.50E+01	a	3.52E+02	4.67E+03	
Selenium				5.00E+00	a	2.80E+01	3.71E+02	Yes
Thallium				7.10E+01	a	3.85E+02	5.10E+03	
Semivolatile Organic Compounds								
Benzo(a)anthracene		3.58E+05	a	8.59E+03		4.64E+04	6.15E+05	
Benzo(a)pyrene		9.69E+05	a	2.33E+04		1.26E+05	1.67E+06	
Benzo(b)fluoranthene		1.23E+06	a	2.95E+04		1.60E+05	2.11E+06	
Dibenz(a,h)anthracene		1.79E+06	a	4.30E+04		2.32E+05	3.08E+06	
Carbazole		3.39E+03	a	8.14E+01		4.41E+02	5.84E+03	

Table L-9. Development of Final CMCOPCs based on Arrival Time <= 1,000 years

Chemicals of Interest		K_{oc} (L/kg)		K_d (L/kg)		R	T (yr)	T < 1,000?
<i>Pesticides and PCBs</i>								
beta-BHC		2.14E+03	a	5.14E+01		2.79E+02	3.69E+03	
Dieldrin		2.55E+04	a	6.12E+02		3.31E+03	4.39E+04	
Endrin		1.08E+04	a	2.59E+02		1.40E+03	1.86E+04	
Endrin Aldehyde		1.08E+04	a	2.59E+02		1.40E+03	1.86E+04	
Endrin Ketone		1.08E+04	f	2.59E+02		1.40E+03	1.86E+04	
Heptachlor Epoxide		8.32E+04	a	2.00E+03		1.08E+04	1.43E+05	
PCB-1254		3.09E+05	a	7.42E+03		4.01E+04	5.31E+05	
Aroclor 1260		3.09E+05	a	7.42E+03		4.01E+04	5.31E+05	
<i>Explosives</i>								
1,3-Dinitrobenzene		1.95E+01		4.68E-01		3.53E+00	4.68E+01	Yes
2,4-Dinitrotoluene		9.55E+01	a	2.29E+00		1.34E+01	1.77E+02	Yes
2,6-Dinitrotoluene		6.92E+01	a	1.66E+00		9.98E+00	1.32E+02	Yes
HMX				0.00E+00		1.00E+00	1.33E+01	Yes
4-Nitrotoluene		1.48E+02	f	3.55E+00		2.02E+01	2.68E+02	Yes
Nitrobenzene		1.19E+02		2.86E+00		1.64E+01	2.18E+02	Yes
RDX		4.67E+00	f	1.12E-01		1.61E+00	2.13E+01	Yes
Tetryl				0.00E+00		1.00E+00	1.33E+01	Yes
1,3,5-Trinitrobenzene		9.98E+00		2.40E-01		2.29E+00	3.04E+01	Yes
2,4,6-Trinitrotoluene		2.13E+05		5.11E+03		2.76E+04	3.66E+05	

References:

- a. EPA Soil Screening Guidance: Technical Background Document, May 1996.
 - b. Baes and Sharp 1983.
 - c. Sheppard and Thibault 1990.
 - d. RREL = Risk Reduction Engineering Laboratory (EPA 1994).
 - f. Calculated from EPA Superfund Office of Emergency and Remedial Response Soil Screening Guidance <http://risk.lsd.ornl.gov>.
- BHC = Benzene hexachloride.
 CMCOPC = Contaminant migration contaminant of potential concern.
 HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.
 PCB = Polychlorinated biphenyl.
 RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.

Table L-10. Revised List of CMCOPCs for SESOIL Modeling (Extracted from Table L-9)

Chemicals of Interest		Koc (L/kg)		Kd (L/kg)		R	T (yr)	T < 1000?
<i>Metals and Inorganic Compounds</i>								
Selenium				5.00E+00	a	2.80E+01	3.71E+02	Yes
<i>Explosives</i>								
1,3-Dinitrobenzene		1.95E+01		4.68E-01		3.53E+00	4.68E+01	Yes
2,4-Dinitrotoluene		9.55E+01	a	2.29E+00		1.34E+01	1.77E+02	Yes
2,6-Dinitrotoluene		6.92E+01	a	1.66E+00		9.98E+00	1.32E+02	Yes
HMX				0.00E+00		1.00E+00	1.33E+01	Yes
4-Nitrotoluene		1.48E+02	f	3.55E+00		2.02E+01	2.68E+02	Yes
Nitrobenzene		1.19E+02		2.86E+00		1.64E+01	2.18E+02	Yes
RDX		4.67E+00	f	1.12E-01		1.61E+00	2.13E+01	Yes
Tetryl				0.00E+00		1.00E+00	1.33E+01	Yes
1,3,5-Trinitrobenzene		9.98E+00		2.40E-01		2.29E+00	3.04E+01	Yes

References:

a. EPA Soil Screening Guidance: Technical Background Document, May 1996.

f. Calculated from EPA Superfund Office of Emergency and Remedial Response Soil Screening Guidance

<http://risk.lsd.orml.gov>

CMCOPC = Contaminant migration contaminant of potential concern.

Kd = Soil-water distribution coefficient.

Koc = Organic carbon distribution coefficient.

HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.

R = Retardation factor.

RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.

SESOIL = Seasonal Soil Compartment (model).

T = Arrival time.

Table L-11. Layers Used in SESOIL Model

Transect	Layer Number	Layer Thickness	Number of Sublayers	Purpose
Explosive Handling Area	1	0.6 m (2 ft)	1	Contaminant Loading
	2	0.3 m (1 ft)	1	Contaminant Loading
	3	6 m (19.5 ft)	4	Leaching
	4	0.15 m (0.5 ft)	1	Determine Leachate Concentration

SESOIL = Seasonal Soil Compartment (model).

Table L-12. SESOIL Application Data, Explosive Handling Area

CMCOPCs	No. of Layers	Layer No.	Thickness of Layer (ft)	No. of Sublayers	Sublayer No.	Concentration (mg/kg)		
Selenium	4	1	2	1	1	1.4		
		2	1	1	1	1.4		
		3	19.5	4	1	0		
					2	0		
					3	0		
					4	0		
		4	0.5	1	1	0		
		1,3-Dinitrobenzene	4	1	2	1	1	2
				2	1	1	1	0
3	19.5			4	1	0		
					2	0		
					3	0		
					4	0		
4	0.5			1	1	0		
2,4-Dinitrotoluene	4			1	2	1	1	0.62
				2	1	1	1	0
		3	19.5	4	1	0		
					2	0		
					3	0		
					4	0		
		4	0.5	1	1	0		
		2,6-Dinitrotoluene	4	1	2	1	1	1.6
				2	1	1	1	0
3	19.5			4	1	0		
					2	0		
					3	0		
					4	0		
4	0.5			1	1	0		

Table L-12. SESOIL Application Data, Explosive Handling Area

CMCOPCs	No. of Layers	Layer No.	Thickness of Layer (ft)	No. of Sublayers	Sublayer No.	Concentration (mg/kg)
4-Nitrotoluene	4	1	2	1	1	2.2
		2	1	1	1	0
		3	19.5	4	1	0
					2	0
					3	0
					4	0
		4	0.5	1	1	0
Nitrobenzene	4	1	2	1	1	0.23
		2	1	1	1	0
		3	19.5	4	1	0
					2	0
					3	0
					4	0
		4	0.5	1	1	0
1,3,5-Trinitrobenzene	4	1	2	1	1	1.8
		2	1	1	1	0
		3	19.5	4	1	0
					2	0
					3	0
					4	0
		4	0.5	1	1	0
2,4,6-Trinitrotoluene	4	1	2	1	1	5,500
		2	1	1	1	0
		3	19.5	4	1	0
					2	0
					3	0
					4	0
		4	0.5	1	1	0

Table L-13. Identification of CMCOPCs Based on Comparison of Predicted or Observed Maximum Concentration with its Target Groundwater Concentration

Media	Analysis Type	Analyte	Maximum Observed Concentration (mg/L)	Maximum Predicted Concentration (mg/L)	Target Groundwater Concentration (mg/L)	CMCOPC based on Observed Groundwater Concentration ?	CMCOPC based on Leachate Modeling ?
Groundwater	Metals	Barium	3.33E-02		2.00E+00		
Groundwater	Metals	Calcium	6.15E+01				
Groundwater	Metals	Cobalt	1.30E-02		7.30E-01		
Groundwater	Metals	Iron	4.80E-01		1.10E+00		
Groundwater	Metals	Magnesium	3.79E+01				
Groundwater	Metals	Manganese	2.20E+00		8.76E-01	Yes	
Groundwater	Metals	Nickel	5.10E-02		7.30E-01		
Groundwater	Metals	Potassium	6.86E+00				
Groundwater	Metals	Selenium	ND	3.18E-02	5.00E-02		
Groundwater	Metals	Sodium	2.93E+01				
Groundwater	Metals	Zinc	2.20E-02		1.10E+01		
Groundwater	Organics-Explosives	1,3,5-Trinitrobenzene	5.00E-02	3.24E-01	1.09E+00		
Groundwater	Organics-Explosives	1,3-Dinitrobenzene	1.20E-04	NA	3.65E-03		
Groundwater	Organics-Explosives	2,4-Dinitrobenzene	ND	0.00E+00	1.00E-05		
Groundwater	Organics-Explosives	2,6-Dinitrobenzene	ND	0.00E+00	1.00E-05		
Groundwater	Organics-Explosives	4-Nitrotoluene	ND	4.29E-02	3.65E-01		
Groundwater	Organics-Explosives	Nitrobenzene	ND	0.00E+00	3.40E-04		
Groundwater	Organics-Explosives	2,4,6-Trinitrotoluene	8.20E-02		2.24E-03	Yes	
Groundwater	Organics-Explosives	2-Amino-4,6-Dinitrotoluene	3.20E-02				
Groundwater	Organics-Explosives	4-Amino-2,6-Dinitrotoluene	5.40E-02				
Groundwater	Organics-Explosives	HMX	2.00E-03		1.80E+00		
Groundwater	Organics-Explosives	RDX	7.70E-03	3.29E+00	6.10E-04	Yes	Yes
Groundwater	Organics-Pesticide/PCB	Beta-BHC	1.50E-04		3.70E-05	Yes	
Groundwater	Organics-Pesticide/PCB	Heptachlor Epoxide	7.50E-05		7.39E-06	Yes	
Groundwater	Organics-Semivolatiles	Bis(2-Ethylhexyl)phthalate	4.70E-03		6.00E-03		
Groundwater	Organics-Volatile	Acetone	6.70E-03		6.08E-01		
Groundwater	Organics-Volatile	Carbon Disulfide	1.40E-03		1.04E+00		
Groundwater	Organics-Volatile	Carbon Tetrachloride	2.50E-04		5.00E-03		

Table L-13. Identification of CMCOPCs Based on Comparison of Predicted or Observed Maximum Concentration with its Target Groundwater Concentration

Media	Analysis Type	Analyte	Maximum Observed Concentration (mg/L)	Maximum Predicted Concentration (mg/L)	Target Groundwater Concentration (mg/L)	CMCOPC based on Observed Groundwater Concentration ?	CMCOPC based on Leachate Modeling ?
Groundwater	Organics-Volatile	Chloroform	1.20E-03		6.17E-03		
Groundwater	Organics-Volatile	Chloromethane	2.30E-04		1.50E-03		
Groundwater	Organics-Volatile	Tetrachloroethene	4.90E-04		5.00E-03		
Groundwater	Organics-Volatile	Toluene	2.00E-04		1.00E+00		

BHC = Benzene hexachloride.

CMCOPC = Contaminant migration contaminant of potential concern.

HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.

NA = Not applicable - Predicted leachate concentration was less than target concentration.

Table L-14. List of CMCOPCs (Extracted from Table L-13) for AT123D modeling

Media	Analysis Type	Analyte	Units	Source Term Concentration^a	Target Groundwater Concentration	CMCOPC for At123D Modeling?
Groundwater	Metals	Manganese	mg/L	2.20E+00	8.76E-01	Yes
Groundwater	Organics-Explosives	2,4,6-Trinitrotoluene	mg/L	8.20E-02	2.24E-03	Yes
Groundwater	Organics-Explosives	RDX	mg/L	3.29E+00	6.10E-04	Yes
Groundwater	Organics-Pesticide/PCB	Beta-BHC	mg/L	1.50E-04	3.70E-05	Yes
Groundwater	Organics-Pesticide/PCB	Heptachlor Epoxide	mg/L	7.50E-05	7.39E-06	Yes

AT123D = Analytical Transient 1-, 2-, 3-Dimensional (model).

BHC = Benzene hexachloride.

CMCOPC = Contaminant migration contaminant of potential concern.

PCB = Polychlorinated biphenyl.

RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.

Table L-15. Physical and Chemical Properties of Initial CMCOPCs at Load Line 3 Required for AT123D Modeling

CMCOPC	Distribution Coefficient, Kd (L/kg)	Retardation factor, Rd^a	Diffusion Coefficient in Water (cm²/s)	Biodegradation Rate^b (1/d)
<i>Metals</i>				
Manganese	7.50E+02	6.75E+03	1.00E-06	NA
<i>Pesticides</i>				
beta-BHC	5.14E+01	4.63E+02	7.34E-06	0.0028
Heptachlor Epoxide	2.00E+03	1.80E+04	4.23E-06	NF
<i>Explosives</i>				
2,4,6-Trinitrotoluene	5.11E+03	4.60E+04	6.32E-06	1.90E-03
RDX	1.12E-01	2.00E+00	NF ^c	NF

References:

- a. Calculated value.
 - b. Howard et al., 1991.
 - c. Assumed a molecular diffusion coefficient of 1E-06 cm²/s.
- AT123D = Analytical Transient 1-, 2-, 3-Dimensional (model).
 BHC = Benzene hexachloride.
 CMCOPC = Contaminant migration contaminant of potential concern.
 NA = Not applicable.
 NF = Not found.
 RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine.