

Fish Road Reclamation Project
Dudley, MA
Phase I and Phase II Acceptance Criteria
Table 1



Test	Parameter	Fish Road <RCS-1 Acceptance Criteria	RCS-1 Reportable Concentration
PID (ppmv)	Total Organic Vapors	<5	NA
VOCs (mg/kg)	Acetone (2-propanone)	0.6	6
	Acrylonitrile	10	100
	Benzene	0.2	2
	Bromobenzene	10	100
	Bromochloromethane	—	NE
	Bromodichloromethane	0.01	0.1
	Bromoform	0.01	0.1
	Bromomethane	0.05	0.5
	2-Butanone (MEK)	0.4	4
	<i>n</i> -Butylbenzene	—	NE
	<i>sec</i> -Butylbenzene	—	NE
	<i>tert</i> -Butylbenzene	10	100
	Carbon Disulfide	10	100
	Carbon Tetrachloride	0.5	5
	Chlorobenzene	0.1	1
	Chloroethane	10	100
	Chloroform	0.02	0.2
	Chloromethane	10	100
	2-Chlorotoluene (<i>ortho</i>)	10	100
	4-Chlorotoluene	1	10
	1,2-Dibromo-3-chloropropane	1	10
	Dibromochloromethane	0.0005	0.005
	1,2-Dibromoethane (EDB)	0.01	0.1
	Dibromomethane	50	500
	1,2-Dichlorobenzene (<i>o</i> -DCB)	0.9	9
	1,3-Dichlorobenzene (<i>m</i> -DCB)	0.3	3
	1,4-Dichlorobenzene (<i>p</i> -DCB)	0.07	0.7
	<i>trans</i> -1,4-Dichloro-2-butene	1	10
	Dichlorodifluoromethane	100	1,000
	1,1-Dichloroethane	0.04	0.4
	1,2-Dichloroethane	0.01	0.1
	1,1-Dichloroethene	0.3	3
	<i>cis</i> -1,2-Dichloroethene	0.01	0.1
	<i>trans</i> -1,2-Dichloroethene	0.1	1
	1,2-Dichloropropane	0.01	0.1
	1,3-Dichloropropane	50	500
	2,2-Dichloropropane	0.01	0.1
	1,1-Dichloropropene	0.001	0.01
	<i>cis</i> -1,3-Dichloropropene	0.001	0.01
	<i>trans</i> -1,3-Dichloropropene	0.001	0.01
	Di-isopropyl ether	10	100
	1,4-Dioxane	0.02	0.2
	Ethanol	10	100
	Ethylbenzene	4	40
	Ethyl ether	10	100
	Hexachlorobutadiene	3	30
	2-Hexanone (MBK)	10	100
	Isopropylbenzene	100	1,000
	2-Isopropyltoluene (<i>ortho</i>)	—	NE
	4-Isopropyltoluene (<i>para</i>)	10	100
	Methyl Tertiary Butyl Ether (MTBE)	0.01	0.1
	4-Methyl-2-pentanone (MIBK)	0.04	0.4
	Methylene Chloride (DCM)	0.01	0.1
	Naphthalene	0.4	4
	<i>n</i> -Propylbenzene	10	100
	Styrene	0.3	3
	Tertiary butyl ether	10	100
	1,1,1,2-Tetrachloroethane	0.01	0.1
	1,1,2,2-Tetrachloroethane	0.0005	0.005
	Tetrachloroethene (PCE)	0.1	1
	Tetrahydrofuran	50	500
	Toluene	3	30
	1,2,3-Trichlorobenzene	—	NE
	1,2,4-Trichlorobenzene	0.2	2
	1,1,1-Trichloroethane (TCA)	3	30
	1,1,2-Trichloroethane	0.01	0.1
	Trichloroethene (TCE)	0.03	0.3
Trichlorofluoroethane	—	NE	
Trichlorofluoromethane	100	1,000	
1,2,3-Trichloropropane	10	100	
1,2,4-Trimethylbenzene	100	1,000	
1,3,5-Trimethylbenzene	1	10	
Vinyl chloride	0.07	0.7	
<i>m, p</i> -Xylenes	10	100	
<i>o</i> -Xylenes	10	100	
Xylenes (total)	10	100	
TPH (mg/kg)	Total Petroleum Hydrocarbons	500	1,000
	Petroleum Identification (qualitative)		

Notes

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SVOCs (mg/kg)	Acenaphthene	4	4
	Acenaphthylene	1	1
	Acetophenone	100	1,000
	Aniline	100	1,000
	Anthracene	10	1,000
	Benzo(a)anthracene	7	7
	Benzo(b)fluoranthene	1	10
	Benzo(a)pyrene	2	2
	Benzo(b)fluoranthene	7	7
	Benzo(g,h,i)perylene	10	1,000
	Benzo(k)fluoranthene	10	70
	Benzoic acid	100	1,000
	Benzyl butyl phthalate	10	100
	Biphenyl	0.05	0.05
	bis (2-chloroethoxy)methane	50	500
	bis (2-Chloroethyl)ether	0.07	0.7
	bis (2-Chloroisopropyl)ether	0.07	0.7
	bis (2-Ethylhexyl)phthalate	9	90
	4-Bromophenyl phenyl ether	10	100
	Carbazole	—	NE
	4-Chloroaniline (para)	0.1	1
	2-Chloronaphthalene	100	1,000
	4-Chloro-3-methylphenol	100	1,000
	2-Chlorophenol	0.07	0.7
	4-Chlorophenyl phenyl ether	100	1,000
	Chrysene	20	70
	Dibenzo(a,h)anthracene	0.7	0.7
	Dibenzofuran	10	100
	3,3'-Dichlorobenzidine	0.3	3
	1,2-Dichlorobenzene (o -DCB)	0.9	9
	1,3-Dichlorobenzene (m -DCB)	0.3	3
	1,4-Dichlorobenzene (p -DCB)	0.07	0.7
	2,4-Dichlorophenol	0.07	0.7
	Diethyl Phthalate	1	10
	2,4-Dimethylphenol	0.07	0.7
	Dimethyl Phthalate	0.07	0.7
	Di-n -Butyl Phthalate	5	50
	4,6-Dinitro-2-methylphenol	5	50
	2,4-Dinitrophenol	0.3	3
	2,4-Dinitrotoluene	0.07	0.7
	2,6-Dinitrotoluene	10	100
	Di-n -Octyl Phthalate	100	1,000
	1,2-Diphenylhydrazine	5	50
	Fluoranthene	40	1,000
	Fluorene	10	1,000
	Hexachlorobenzene	0.07	0.7
	Hexachlorobutadiene	3	30
	Hexachlorocyclopentadiene	5	50
	Hexachloroethane	0.07	0.7
	Indeno(1,2,3-cd)pyrene	7	7
	Isophorone	10	100
	2-Methylnaphthalene	0.7	0.7
	2-Methylphenol (o-cresol)	50	500
	3&4-Methylphenol (m&p-cresol)	50	500
	Naphthalene	4	4
	2-Nitroaniline (ortho)	—	NE
	3-Nitroaniline (meta)	—	NE
4-Nitroaniline (para)	100	1,000	
Nitrobenzene	50	500	
N-Nitrosodimethylamine	5	50	
N-Nitrosodi-n -propylamine	5	50	
N-Nitrosodiphenylamine	10	100	
2-Nitrophenol (ortho)	10	100	
4-Nitrophenol (para)	10	100	
Pentachloronitrobenzene	10	100	
Pentachlorophenol	0.3	3	
Phenanthrene	10	10	
Phenol	0.1	1	
Pyrene	40	1,000	
Pyridine	50	500	
1,2,4,5-Tetrachlorobenzene	100	1,000	
1,2,4-Trichlorobenzene	0.2	2	
2,4,5-Trichlorophenol	0.4	4	
2,4,6-Trichlorophenol	0.07	0.7	
PCBs	No Aroclor identification	0.1	1

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Total SVOCs must be less than 100

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Test	Parameter	Fish Road <RCS-1 Acceptance Criteria	RCS-1 Reportable Concentration
Total Metals (mg/kg)	Antimony	10	20
	Arsenic	20	20
	*Arsenic (naturally occurring)	<100	NE
	Barium	375	1,000
	Beryllium	4	90
	Cadmium	20	70
	Chromium (total)	100	100
	Lead	200	200
	Mercury	3	20
	Nickel	150	600
	Selenium	5	400
	Silver	6	100
	Thallium	6	8
	Vanadium	225	400
Zinc	500	1,000	
Chlorinated Pesticides & Herbicides (mg/kg) ⁽²⁾	Alachlor	10	100
	Aldrin	0.008	0.08
	α-BHC	5	50
	β-BHC	1	10
	γ-BHC (Lindane, γ-HCH)	0.0003	0.003
	δ-BHC	1	10
	Chlordane	0.5	5
	4,4-DDD (p,p')	0.8	8
	4,4-DDE (p,p')	0.6	6
	4,4-DDT (p,p')	0.6	6
	Dieldrin	0.008	0.08
	α-Endosulfan (I)	0.05	0.5
	β-Endosulfan (II)	0.05	0.5
	Endosulfan Sulfate	"See listed constituents"	
	Endrin	1	10
	Endrin Aldehyde	1	10
	Endrin ketone	1	10
	Heptachlor	0.03	0.3
	Heptachlor Epoxide	0.01	0.1
	Hexachlorobenzene	0.07	0.7
	Methoxychlor	20	200
	Toxaphene	1	10
	2,4-D	10	100
	2,4-DB	10	100
	Dalapon	100	1,000
	Dicamba	50	500
	Dichlorprop	—	NE
	Dinoseb	50	500
	MCPA	10	100
	MCPP	—	NE
	2,4,5-T	10	100
	2,4,5-TP (Silvex)	10	100
Other	Percent Solids	No Free Liquids	—
	pH (Standard Units)	5-9 S.U.	>2.0 or <12.5 S.U.
	Corrosivity (positive/negative)	Negative	Negative
	Specific Conductance (umhos/cm)	2,000	—
	Flashpoint (°F)	Non-Ignitable	Non-Ignitable
	Ignitability (°F)	>140 °F	>140 °F
	Cyanide Reactivity	<250	Non-Reactive
	Sulfide Reactivity	<500	Non-Reactive
	Reactivity (positive/negative)	None	Negative
	Percent Solids	No Free Liquids	
	Ammedable Cyanide ⁽¹⁾	3	30
	Asbestos ⁽¹⁾	ND	1%
	Dioxins ⁽¹⁾	<0.000002	0.000002
	Perchlorate Compounds ⁽¹⁾	<0.01	0.1
Per- and Polyfluoroalkyl Substances (PFAS) ⁽¹⁾	ND	NE	

Notes

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* Naturally occurring arsenic acceptance criteria does not apply to soil originating from out-of-state.

(1) Must analyze if considered to be a chemical of concern at generating site

(2) Herbicides or pesticides <10% applicable RCs (and no known or potential source)