Draft

Operable Unit 2 Remedial Investigation Technical Memorandum

Volume 2
Appendices

for the

Diamond Head Oil Superfund Site
Kearny, New Jersey

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Appendix A
Standards and Criteria Used to Evaluate OU2 Sampling Results

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Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
New Jersey Residential Direct Contact Remediation Standard NJAC 7:26D Appendix 1 Soil Remediation Standards Table			
Acenaphthene	83-32-9	3400	mg/kg
Acenaphthylene	208-96-8		mg/kg
Acetone	67-64-1	70000	mg/kg
Acetophenone	98-86-2	2	mg/kg
Acrolein	107-02-8	0.5	mg/kg
Acrylonitrile	107-13-1	0.9	mg/kg
Aldrin	309-00-2	0.04	mg/kg
Aluminum	7429-90-5	78000	mg/kg
Anthracene	120-12-7	17000	mg/kg
Antimony	7440-36-0	31	mg/kg
Arsenic	7440-38-2	19	mg/kg
Atrazine	1912-24-9	210	mg/kg
Barium	7440-39-3	16000	mg/kg
Benzaldehyde	100-52-7	6100	mg/kg
Benzene	71-43-2	2	mg/kg
Benzidine	92-87-5	0.7	mg/kg
Benzo(a)anthracene	56-55-3	0.6	mg/kg
Benzo(a)pyrene	50-32-8	0.2	mg/kg
Benzo(b)fluoranthene	205-99-2	0.6	mg/kg
Benzo(g,h,I)perylene	191-24-2	380000	mg/kg
Benzo(k)fluoranthene	207-08-9	6	mg/kg
Beryllium	7440-41-7	16	mg/kg
BHC, alpha	319-84-6	0.1	mg/kg
BHC, beta	319-85-7	0.4	mg/kg
BHC, gamma (Lindane)	58-89-9	0.4	mg/kg
Biphenyl	92-52-4	3100	mg/kg
Bromoform	75-25-2	81	mg/kg
Bromomethane	74-83-9	25	mg/kg
Butyl alcohol, tert-	75-65-0	1400	mg/kg
Butylbenzyl phthalate	85-68-7	1200	mg/kg
Cadmium	7440-43-9	78	mg/kg
Caprolactam	105-60-2	31000	mg/kg
Carbazole	86-74-8	24	mg/kg
Carbon disulfide	75-15-0	7800	mg/kg
Carbon tetrachloride	56-23-5	0.6	mg/kg
Chlordane	57-74-9	0.2	mg/kg
Chlorobenzene	108-90-7	510	mg/kg
Chloroethane	75-00-3	220	mg/kg
Chloroform	67-66-3	0.6	mg/kg
Chloromethane	74-87-3	4	mg/kg
Chlorophenol-2	95-57-8	310	mg/kg
Chrysene	218-01-9	62	mg/kg
Cobalt	7440-48-4	1600	mg/kg
Copper	7440-50-8	3100	mg/kg
Cresol-4,6-dinitro-ortho	534-52-1	6	mg/kg
Cresol-o	95-48-7	310	mg/kg
Cresol-p	106-44-5	31	mg/kg
Cyanide	57-12-5	1600	mg/kg

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.08	mg/kg
DDD-4,4	72-54-8	3	mg/kg
DDE-4,4	72-55-9	2	mg/kg
DDT-4,4	50-29-3	2	mg/kg
Dibenzo(a,h)anthracene	53-70-3	0.2	mg/kg
Dibromochloromethane	124-48-1	3	mg/kg
Dibromoethane-1,2	106-93-4	0.008	mg/kg
Dichlorobenzene-1,2	95-50-1	5300	mg/kg
Dichlorobenzene-1,3	541-73-1	5300	mg/kg
Dichlorobenzene-1,4	106-46-7	5	mg/kg
Dichlorobenzidine-3,3'	91-94-1	1	mg/kg
Dichlorobromomethane	75-27-4	1	mg/kg
Dichlorodifluoromethane	75-71-8	490	mg/kg
Dichloroethane-1,1	75-34-3	8	mg/kg
Dichloroethane-1,2	107-06-2	0.9	mg/kg
Dichloroethene-1,2 trans	156-60-5	300	mg/kg
Dichloroethylene-1,1	75-35-4	11	mg/kg
Dichloroethylene-1,2 cis	156-59-2	230	mg/kg
Dichlorophenol-2,4	120-83-2	180	mg/kg
Dichloropropane-1,2	78-87-5	2	mg/kg
Dichloropropene-1,3 cis	542-75-6	2	mg/kg
Dieldrin	60-57-1	0.04	mg/kg
Dimethylphenol-2,4	105-67-9	1200	mg/kg
Dinitrophenol-2,4	51-28-5	120	mg/kg
Dinitrotoluene	25321-14-6	0.7	mg/kg
Dinitrotoluene-2,4	121-14-2	0.7	mg/kg
Dinitrotoluene-2,6	606-20-2	0.7	mg/kg
Diphenylhydrazine-1,2	122-66-7	0.7	mg/kg
Endosulfan	115-29-7	470	mg/kg
Endosulfan Sulfate	1031-07-8	470	mg/kg
Endrin	72-20-8	23	mg/kg
Ether, bis(2-chloroethyl)	111-44-4	0.4	mg/kg
Ether, bis-chloroisopropyl	108-60-1	23	mg/kg
Ethylbenzene	100-41-4	7800	mg/kg
Fluoranthene	206-44-0	2300	mg/kg
Fluorene	86-73-7	2300	mg/kg
Heptachlor	76-44-8	0.1	mg/kg
Heptachlor Epoxide	1024-57-3	0.07	mg/kg
Hexachlorobenzene	118-74-1	0.3	mg/kg
Hexachlorobutadiene	87-68-3	6	mg/kg
Hexachlorocyclopentadiene	77-47-4	45	mg/kg
Hexachloroethane	67-72-1	35	mg/kg
Indeno(1,2,3-cd)pyrene	193-39-5	0.6	mg/kg
Isophorone	78-59-1	510	mg/kg
Lead	7439-92-1	400	mg/kg
Manganese	7439-96-5	11000	mg/kg
Mercury	7439-97-6	23	mg/kg
Methoxychlor	72-43-5	390	mg/kg
Methyl acetate	79-20-9	78000	mg/kg
Methyl ethyl ketone (2-butanone)	78-93-3	3100	mg/kg

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Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Methyl tertiary butyl ether (MTBE)	1634-04-4	110	mg/kg
Methylene chloride	75-09-2	34	mg/kg
Methylnaphthalene-2	91-57-6	230	mg/kg
Naphthalene	91-20-3	6	mg/kg
Nickel	7440-02-0	1600	mg/kg
Nitroaniline-2	88-74-4	39	mg/kg
Nitrobenzene	98-95-3	31	mg/kg
Nitrosodimethylamine-n	62-75-9	0.7	mg/kg
Nitroso-di-n-propyl-amine-N	621-64-7	0.2	mg/kg
Nitrosodiphenylamine-n	86-30-6	99	mg/kg
Pcb-araclor 1016	12674-11-2	0.2	mg/kg
Pcb-araclor 1221	11104-28-2	0.2	mg/kg
Pcb-araclor 1232	11141-16-5	0.2	mg/kg
Pcb-araclor 1242	53469-21-9	0.2	mg/kg
Pcb-araclor 1248	12672-29-6	0.2	mg/kg
Pcb-araclor 1254	11097-69-1	0.2	mg/kg
Pcb-araclor 1260	11096-82-5	0.2	mg/kg
Pcb-araclor 1262	37324-23-5	0.2	mg/kg
Pcb-araclor 1268	11100-14-4	0.2	mg/kg
Pcb-araclor 5442	12642-23-8	0.2	mg/kg
PCBs	1336-36-3	0.2	mg/kg
PCP (Pentachlorophenol)	87-86-5	3	mg/kg
Phenanthrene	85-01-8		mg/kg
Phenol	108-95-2	18000	mg/kg
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	35	mg/kg
Phthalate, diethyl	84-66-2	49000	mg/kg
Phthalate, di-n-butyl	84-74-2	6100	mg/kg
Phthalate, di-n-octyl	117-84-0	2400	mg/kg
Pyrene	129-00-0	1700	mg/kg
Selenium	7782-49-2	390	mg/kg
Silver	7440-22-4	390	mg/kg
Styrene	100-42-5	90	mg/kg
Tetrachloroethane-1,1,2,2	79-34-5	1	mg/kg
Tetrachloroethylene	127-18-4	2	mg/kg
Thallium	7440-28-0	5	mg/kg
Toluene	108-88-3	6300	mg/kg
Toxaphene	8001-35-2	0.6	mg/kg
Trichlorobenzene-1,2,4	120-82-1	73	mg/kg
Trichloroethane-1,1,1	71-55-6	290	mg/kg
Trichloroethane-1,1,2	79-00-5	2	mg/kg
Trichloroethylene	79-01-6	7	mg/kg
Trichlorofluoromethane	75-69-4	23000	mg/kg
Trichlorophenol-2,4,5	95-95-4	6100	mg/kg
Trichlorophenol-2,4,6	88-06-2	19	mg/kg
Vanadium	7440-62-2	78	mg/kg
Vinyl chloride	75-01-4	0.7	mg/kg
Xylene-m & p - (Sum of Isomers)	XYLMP	12000	mg/kg
Xylene-o	95-47-6	12000	mg/kg
XYLENES, M & P	179601-23-1	12000	mg/kg
Xylenes, total	1330-20-7	12000	mg/kg

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Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Zinc	7440-66-6	23000	mg/kg
New Jersey Non-Residential Direct Contact Remediation Standard NJAC 7:26D Appendix 1 Soil Remediation Standards Table			
Acenaphthene	83-32-9	37000	mg/kg
Acenaphthylene	208-96-8	300000	mg/kg
Acetone	67-64-1		mg/kg
Acetophenone	98-86-2	5	mg/kg
Acrolein	107-02-8	1	mg/kg
Acrylonitrile	107-13-1	3	mg/kg
Aldrin	309-00-2	0.2	mg/kg
Aluminum	7429-90-5		mg/kg
Anthracene	120-12-7	30000	mg/kg
Antimony	7440-36-0	450	mg/kg
Arsenic	7440-38-2	19	mg/kg
Atrazine	1912-24-9	2400	mg/kg
Barium	7440-39-3	59000	mg/kg
Benzaldehyde	100-52-7	68000	mg/kg
Benzene	71-43-2	5	mg/kg
Benzidine	92-87-5	0.7	mg/kg
Benzo(a)anthracene	56-55-3	2	mg/kg
Benzo(a)pyrene	50-32-8	0.2	mg/kg
Benzo(b)fluoranthene	205-99-2	2	mg/kg
Benzo(g,h,l)perylene	191-24-2	30000	mg/kg
Benzo(k)fluoranthene	207-08-9	23	mg/kg
Beryllium	7440-41-7	140	mg/kg
BHC, alpha	319-84-6	0.5	mg/kg
BHC, beta	319-85-7	2	mg/kg
BHC, gamma (Lindane)	58-89-9	2	mg/kg
Biphenyl	92-52-4	34000	mg/kg
Bromoform	75-25-2	280	mg/kg
Bromomethane	74-83-9	59	mg/kg
Butyl alcohol, tert-	75-65-0	11000	mg/kg
Butylbenzyl phthalate	85-68-7	14000	mg/kg
Cadmium	7440-43-9	78	mg/kg
Caprolactam	105-60-2	340000	mg/kg
Carbazole	86-74-8	96	mg/kg
Carbon disulfide	75-15-0	110000	mg/kg
Carbon tetrachloride	56-23-5	2	mg/kg
Chlordane	57-74-9	1	mg/kg
Chlorobenzene	108-90-7	7400	mg/kg
Chloroethane	75-00-3	1100	mg/kg
Chloroform	67-66-3	2	mg/kg
Chloromethane	74-87-3	12	mg/kg
Chlorophenol-2	95-57-8	2200	mg/kg
Chrysene	218-01-9	230	mg/kg
Cobalt	7440-48-4	590	mg/kg
Copper	7440-50-8	45000	mg/kg
Cresol-4,6-dinitro-ortho	534-52-1	68	mg/kg
Cresol-o	95-48-7	3400	mg/kg
Cresol-p	106-44-5	340	mg/kg

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Cyanide	57-12-5	23000	mg/kg
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.2	mg/kg
DDD-4,4	72-54-8	13	mg/kg
DDE-4,4	72-55-9	9	mg/kg
DDT-4,4	50-29-3	8	mg/kg
Dibenzo(a,h)anthracene	53-70-3	0.2	mg/kg
Dibromochloromethane	124-48-1	8	mg/kg
Dibromoethane-1,2	106-93-4	0.04	mg/kg
Dichlorobenzene-1,2	95-50-1	59000	mg/kg
Dichlorobenzene-1,3	541-73-1	59000	mg/kg
Dichlorobenzene-1,4	106-46-7	13	mg/kg
Dichlorobenzidine-3,3'	91-94-1	4	mg/kg
Dichlorobromomethane	75-27-4	3	mg/kg
Dichlorodifluoromethane	75-71-8	230000	mg/kg
Dichloroethane-1,1	75-34-3	24	mg/kg
Dichloroethane-1,2	107-06-2	3	mg/kg
Dichloroethene-1,2 trans	156-60-5	720	mg/kg
Dichloroethylene-1,1	75-35-4	150	mg/kg
Dichloroethylene-1,2 cis	156-59-2	560	mg/kg
Dichlorophenol-2,4	120-83-2	2100	mg/kg
Dichloropropane-1,2	78-87-5	5	mg/kg
Dichloropropene-1,3 cis	542-75-6	7	mg/kg
Dieldrin	60-57-1	0.2	mg/kg
Dimethylphenol-2,4	105-67-9	14000	mg/kg
Dinitrophenol-2,4	51-28-5	1400	mg/kg
Dinitrotoluene	25321-14-6	3	mg/kg
Dinitrotoluene-2,4	121-14-2	3	mg/kg
Dinitrotoluene-2,6	606-20-2	3	mg/kg
Diphenylhydrazine-1,2	122-66-7	2	mg/kg
Endosulfan	115-29-7	6800	mg/kg
Endosulfan Sulfate	1031-07-8	6800	mg/kg
Endrin	72-20-8	340	mg/kg
Ether, bis(2-chloroethyl)	111-44-4	2	mg/kg
Ether, bis-chloroisopropyl	108-60-1	67	mg/kg
Ethylbenzene	100-41-4	110000	mg/kg
Fluoranthene	206-44-0	24000	mg/kg
Fluorene	86-73-7	24000	mg/kg
Heptachlor	76-44-8	0.7	mg/kg
Heptachlor Epoxide	1024-57-3	0.3	mg/kg
Hexachlorobenzene	118-74-1	1	mg/kg
Hexachlorobutadiene	87-68-3	25	mg/kg
Hexachlorocyclopentadiene	77-47-4	110	mg/kg
Hexachloroethane	67-72-1	140	mg/kg
Indeno(1,2,3-cd)pyrene	193-39-5	2	mg/kg
Isophorone	78-59-1	2000	mg/kg
Lead	7439-92-1	800	mg/kg
Manganese	7439-96-5	5900	mg/kg
Mercury	7439-97-6	65	mg/kg
Methoxychlor	72-43-5	5700	mg/kg
Methyl acetate	79-20-9		mg/kg

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Methyl ethyl ketone (2-butanone)	78-93-3	44000	mg/kg
Methyl tertiary butyl ether (MTBE)	1634-04-4	320	mg/kg
Methylene chloride	75-09-2	97	mg/kg
Methylnaphthalene-2	91-57-6	2400	mg/kg
Naphthalene	91-20-3	17	mg/kg
Nickel	7440-02-0	23000	mg/kg
Nitroaniline-2	88-74-4	2300	mg/kg
Nitrobenzene	98-95-3	340	mg/kg
Nitrosodimethylamine-n	62-75-9	0.7	mg/kg
Nitroso-di-n-propyl-amine-N	621-64-7	0.3	mg/kg
Nitrosodiphenylamine-n	86-30-6	390	mg/kg
Pcb-araclor 1016	12674-11-2	1	mg/kg
Pcb-araclor 1221	11104-28-2	1	mg/kg
Pcb-araclor 1232	11141-16-5	1	mg/kg
Pcb-araclor 1242	53469-21-9	1	mg/kg
Pcb-araclor 1248	12672-29-6	1	mg/kg
Pcb-araclor 1254	11097-69-1	1	mg/kg
Pcb-araclor 1260	11096-82-5	1	mg/kg
Pcb-araclor 1262	37324-23-5	1	mg/kg
Pcb-araclor 1268	11100-14-4	1	mg/kg
Pcb-araclor 5442	12642-23-8	1	mg/kg
PCBs	1336-36-3	1	mg/kg
PCP (Pentachlorophenol)	87-86-5	10	mg/kg
Phenanthrene	85-01-8	300000	mg/kg
Phenol	108-95-2	210000	mg/kg
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	140	mg/kg
Phthalate, diethyl	84-66-2	550000	mg/kg
Phthalate, di-n-butyl	84-74-2	68000	mg/kg
Phthalate, di-n-octyl	117-84-0	27000	mg/kg
Pyrene	129-00-0	18000	mg/kg
Selenium	7782-49-2	5700	mg/kg
Silver	7440-22-4	5700	mg/kg
Styrene	100-42-5	260	mg/kg
Tetrachloroethane-1,1,2,2	79-34-5	3	mg/kg
Tetrachloroethylene	127-18-4	5	mg/kg
Thallium	7440-28-0	79	mg/kg
Toluene	108-88-3	91000	mg/kg
Toxaphene	8001-35-2	3	mg/kg
Trichlorobenzene-1,2,4	120-82-1	820	mg/kg
Trichloroethane-1,1,1	71-55-6	4200	mg/kg
Trichloroethane-1,1,2	79-00-5	6	mg/kg
Trichloroethylene	79-01-6	20	mg/kg
Trichlorofluoromethane	75-69-4	340000	mg/kg
Trichlorophenol-2,4,5	95-95-4	68000	mg/kg
Trichlorophenol-2,4,6	88-06-2	74	mg/kg
Vanadium	7440-62-2	1100	mg/kg
Vinyl chloride	75-01-4	2	mg/kg
Xylene-m & p - (Sum of Isomers)	XYLMP	170000	mg/kg
Xylene-o	95-47-6	170000	mg/kg
XYLENES, M & P	179601-23-1	170000	mg/kg

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Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Xylenes, total	1330-20-7	170000	mg/kg
Zinc	7440-66-6	110000	mg/kg
New Jersey Impact to Groundwater Soil Screening Levels - available at http://www.state.nj.us/dep//srp/guidance/rs/partition_equation.pdf; last revised December, 2008			
Acenaphthene	83-32-9	74	mg/kg
Acetone (2-propanone)	67-64-1	12	mg/kg
Acetophenone	98-86-2	2	mg/kg
Acrolein	107-02-8	0.5	mg/kg
Acrylonitrile	107-13-1	0.5	mg/kg
Aldrin	309-00-2	0.1	mg/kg
Aluminum	7429-90-5	3900	mg/kg
Anthracene	120-12-7	1500	mg/kg
Antimony	7440-36-0	6	mg/kg
Arsenic	7440-38-2	19	mg/kg
Atrazine	1912-24-9	0.2	mg/kg
Barium	7440-39-3	1300	mg/kg
Benzene	71-43-2	0.005	mg/kg
Benzidine	92-87-5	0.7	mg/kg
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.5	mg/kg
Benzo(a)pyrene	50-32-8	0.2	mg/kg
Benzo(b)fluoranthene (3,4-benzofluoranthene)	205-99-2	2	mg/kg
Benzo(ghi)perylene	191-24-2		mg/kg
Benzo(k)fluoranthene	207-08-9	16	mg/kg
Bis(2-chloroethyl)ether	111-44-4	0.2	mg/kg
Bis(2-chloroisopropyl)ether Bis(2-ethylhexyl)phthalate	108-60-1	3	mg/kg
Bis(2-ethylhexyl)phthalate	117-81-7	790	mg/kg
Bromodichioromethane (Dichiorobromom ethane)	75-27-4	0.005	mg/kg
Bromoform	75-25-2	0.02	mg/kg
Bromomethane (Methyl bromide)	74-83-9	0.03	mg/kg
2-Butanone (Methyl ethyl ketone) (MEK)	78-93-3	0.6	mg/kg
Butylbenzylphthalate	85-68-7	150	mg/kg
Cadmium	7440-43-9	1	mg/kg
Caprolactam	105-60-2	8	mg/kg
Carbon disulfide	75-15-0	4	mg/kg
Carbon tetrachloride	56-23-5	0.005	mg/kg
Chlordane (alpha and gamma)	57-74-9	0.03	mg/kg
Chlorobenzene	108-90-7	0.4	mg/kg
Chloroethane (Ethyl chloride)	75-00-3		mg/kg
Chloroform	67-66-3	0.2	mg/kg
2-Chlorophenol (o-Chlorophenol)	95-57-8	0.5	mg/kg
Chrysene	218-01-9	52	mg/kg
Cobalt	7440-48-4	59	mg/kg
Copper	7440-50-8	7300	mg/kg
Cyanide	57-12-5	13	mg/kg

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
4,4'-DDD	72-54-8	3	mg/kg
4,4'-DDE	72-55-9	12	mg/kg
4,4'-DDT	50-29-3	7	mg/kg
Dibenz(a,h)anthracene	53-70-3	0.5	mg/kg
Dibrom ochloromethane (Chlorodibromomethane)	124-48-1	0.005	mg/kg
1 ,2-Dibrom o-3-chloropropane	96-12-8	0.005	mg/kg
1,2-Dibromoethane (ethylene dibromide)	106-93-4	0.005	mg/kg
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	11	mg/kg
1,3-Dichlorobenzene (m-Dichlorobenzene)	541-73-1	12	mg/kg
1 ,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	1	mg/kg
3,3-Dichlorobenzidine	91-94-1	0.2	mg/kg
Dichlorodifluoromethane	75-71-8	25	mg/kg
1,1-Dichloroethane	75-34-3	0.2	mg/kg
1,2-Dichloroethane	107-06-2	0.005	mg/kg
1,1-Dichloroethene (1,1-Dichloroethylene)	75-35-4	0.005	mg/kg
1,2-Dichloroethene (cis) (c-1,2-Dichloroethylene)	156-59-2	0.2	mg/kg
1,2-Dichloroethene (trans) (t-1,2-Dichloroethylene)	156-60-5	0.4	mg/kg
2,4-Dichlorophenol	120-83-2	0.2	mg/kg
1,2-Dichloropropane	78-87-5	0.005	mg/kg
1,3-Dichloropropene (cis and trans) (summed)	542-75-6	0.005	mg/kg
Dieldrin	60-57-1	0.003	mg/kg
Diethyl phthalate	84-66-2	57	mg/kg
2,4-Dimethyiphenol	105-67-9	0.7	mg/kg
Di-n-butyl phthalate	84-74-2	620	mg/kg
4,6-Dinitro-2-m ethyiphenol (4,6-Dinitro-o-cresol)	534-52-1	O.3	mg/kg
2,4-Dinitrophenol	51-28-5	O.3	mg/kg
2,4-Dinitrotoluene	121-14-2		mg/kg
2,6-Dinitrotoluene	606-20-2		mg/kg
2,4-Dinitrotoluenel2,6-Dinitrotoluene (mixture)	121-14-21606-20-2	0.2	mg/kg mg/kg
Di-n-octyl phthalate	117-84-0	3300	mg/kg
1,2-Diphenyihydrazine	122-66-7	O.7	mg/kg
Endosulfan I and Endosulfan II (alpha and beta)	115-29-7	2	mg/kg
Endosulfan sulfate	103 1-07-8	1	mg/kg
Endrin	72-20-8	0.6	mg/kg
Ethyl benzene	100-41-4	8	mg/kg
Fluoranthene	206-44-0	840	mg/kg
Fluorene	86-73-7	110	mg/kg
Alpha-HCH (alpha-B}zIC)	319-84-6	0.002	mg/kg

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Beta-HCH (beta-BHC)	319-85-7	0.002	mg/kg
Heptachlor	76-44-8	0.3	mg/kg
Heptachlor epoxide	1024-57-3	0.009	mg/kg
Hexachlorobenzene	118-74-1	0.2	mg/kg
Hexachloro-1,3-butadiene	87-68-3	0.6	mg/kg
Hexachlorocyclopentadiene	77-47-4	210	mg/kg
Hexachloroethane	67-72-1	0.2	mg/kg
Indeno(1,2,3-cd)pyrene	193-39-5	5	mg/kg
Isophorone	78-59-1	0.2	mg/kg
Lead	7439-92-1	59	mg/kg
Lindane (gamma-HCH) (gamma-BHC)	58-89-9	0.002	mg/kg
Manganese	7439-96-5	42	mg/kg
Mercury	7439-97-6	0.I	mg/kg
Methoxychlor	72-43-5	100	mg/kg
Methyl acetate	79-20-9	14	mg/kg
Methylene chloride (Dichloromethane)	75-09-2	0.007	mg/kg
2-Methylnaphthalene	91-57-6	5	mg/kg
Methyl tert-butyl ether (MTBE)	1634-04-4	0.2	mg/kg
Naphthalene	91-20-3	16	mg/kg
Nickel (Soluble salts)	7440-02-0	31	mg/kg
2-Nitroaniline	88-74-4		mg/kg
Nitrobenzene	98-95-3	0.2	mg/kg
N-Nitrosodimethylamine	62-75-9	O.7	mg/kg
N-Nitrosodi-n-propylamine	621-64-7	0.2	mg/kg
N-Nitrosodiphenylamine	86-30-6	0.2	mg/kg
Pentachlorophenol	87-86-5	0.3	mg/kg
Phenanthrene	85-01-8		mg/kg
Phenol	108-95-2	5	mg/kg
Polychlorinatedbiphenyls (PCBs)	81336-36-3	0.2	mg/kg
Pyrene	129-00-0	550	mg/kg
Selenium	7782-49-2	7	mg/kg
Silver	7440-22-4	1	mg/kg
Styrene	100-42-5	2	mg/kg
Tertiary butyl alcohol (TBA)	75-65-0	0.2	mg/kg
1,1,2,2-Tetrachioroethane	79-34-5	0.005	mg/kg
Tetrachioroethene (PCE) (Tetrachloroethylene)	127-18-4	0.005	mg/kg
Thallium	7440-28-0	3	mg/kg
Toluene	108-88-3	4	mg/kg
Toxaphene	8001-35-2	0.2	mg/kg
1,2,4-Trichlorobenzene	120-82-1	0.4	mg/kg
1,1,1-Trichioroethane	71-55-6	0.2	mg/kg
1,i,2-Trichloroethane	79-00-5	0.01	mg/kg
Trichloroethene (TCE) (Trichloroethylene)	79-01-6	0.007	mg/kg
Trichiorofluoromethane	75-69-4	22	mg/kg
2,4,5-Trichlorophenol	95-95-4	44	mg/kg
2,4,6-Trichlorophenol	88-06-2	0.2	mg/kg

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Vanadium	7440-62-2		mg/kg
Vinyl chloride	75-01-4	0.005	mg/kg
Xylenes	1330-20-7	12	mg/kg
Zinc	7440-66-6	600	mg/kg
New Jersey Groundwater Quality Standards NJAC 7:9C Appendix 1 Specific Ground Water Quality Critiria			
2,4-D	94-75-7	70	ug/l
Acenaphthene	83-32-9	400	ug/l
Acetone	67-64-1	6000	ug/l
Aldrin	309-00-2	0.04	ug/l
Aluminum	7429-90-5	200	ug/l
Anthracene	120-12-7	2000	ug/l
Antimony	7440-36-0	6	ug/l
Arsenic	7440-38-2	3	ug/l
Atrazine	1912-24-9	3	ug/l
Barium	7440-39-3	6000	ug/l
Benzene	71-43-2	1	ug/l
Beryllium	7440-41-7	1	ug/l
BHC, alpha	319-84-6	0.02	ug/l
BHC, beta	319-85-7	0.04	ug/l
BHC, gamma (Lindane)	58-89-9	0.03	ug/l
Bromoform	75-25-2	4	ug/l
Bromomethane	74-83-9	10	ug/l
Butylbenzyl phthalate	85-68-7	100	ug/l
Cadmium	7440-43-9	4	ug/l
Carbon tetrachloride	56-23-5	1	ug/l
Chloride	16887-00-6	250000	ug/l
Chlorobenzene	108-90-7	50	ug/l
Chloroform	67-66-3	70	ug/l
Chlorophenol-2	95-57-8	40	ug/l
Chromium	7440-47-3	70	ug/l
Copper	7440-50-8	1300	ug/l
Cyanide	57-12-5	100	ug/l
DDD-4,4	72-54-8	0.1	ug/l
DDE-4,4	72-55-9	0.1	ug/l
DDT-4,4	50-29-3	0.1	ug/l
Dibromochloromethane	124-48-1	1	ug/l
Dibromoethane-1,2	106-93-4	0.03	ug/l
Dichlorobenzene-1,2	95-50-1	600	ug/l
Dichlorobenzene-1,3	541-73-1	600	ug/l
Dichlorobenzene-1,4	106-46-7	75	ug/l
Dichlorobenzidine-3,3'	91-94-1	30	ug/l
Dichlorobromomethane	75-27-4	1	ug/l
Dichloroethane-1,1	75-34-3	50	ug/l
Dichloroethane-1,2	107-06-2	2	ug/l
Dichloroethene-1,2 trans	156-60-5	100	ug/l
Dichloroethylene-1,1	75-35-4	1	ug/l
Dichloroethylene-1,2 cis	156-59-2	70	ug/l
Dichlorophenol-2,4	120-83-2	20	ug/l
Dichloropropane-1,2	78-87-5	1	ug/l

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Dieldrin	60-57-1	0.03	ug/l
Dimethylphenol-2,4	105-67-9	100	ug/l
Dinitrophenol-2,4	51-28-5	40	ug/l
Dinitrotoluene-2,4	121-14-2	10	ug/l
Endosulfan I (alpha)	959-98-8	40	ug/l
Endosulfan II (beta)	33213-65-9	40	ug/l
Endosulfan Sulfate	1031-07-8	40	ug/l
Endrin	72-20-8	2	ug/l
Ether, bis(2-chloroethyl)	111-44-4	7	ug/l
Ethylbenzene	100-41-4	700	ug/l
Fluoranthene	206-44-0	300	ug/l
Fluorene	86-73-7	300	ug/l
HARDNESS (AS CACO3)	HARD	250000	mg/l
Heptachlor	76-44-8	0.05	ug/l
Heptachlor Epoxide	1024-57-3	0.2	ug/l
Hexachlorobenzene	118-74-1	0.02	ug/l
Hexachlorobutadiene	87-68-3	1	ug/l
Hexachlorocyclopentadiene	77-47-4	40	ug/l
Hexachloroethane	67-72-1	7	ug/l
Iron	7439-89-6	300	ug/l
Isophorone	78-59-1	40	ug/l
Lead	7439-92-1	5	ug/l
Manganese	7439-96-5	50	ug/l
Mercury	7439-97-6	2	ug/l
Methoxychlor	72-43-5	40	ug/l
Methyl ethyl ketone (2-butanone)	78-93-3	300	ug/l
Methylene chloride	75-09-2	3	ug/l
Nickel	7440-02-0	100	ug/l
Nitrobenzene	98-95-3	6	ug/l
Nitrogen, Nitrate	14797-55-8	10000	ug/l
NITROGEN, NITRATE-NITRITE	NO3NO2N	10000	ug/l
Nitrogen, Nitrite	14797-65-0	1000	ug/l
Nitroso-di-n-propyl-amine-N	621-64-7	10	ug/l
Nitrosodiphenylamine-n	86-30-6	10	ug/l
PCP (Pentachlorophenol)	87-86-5	0.3	ug/l
pH	1	8.5	ug/l
Phenol	108-95-2	2000	ug/l
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	3	ug/l
Phthalate, diethyl	84-66-2	6000	ug/l
Phthalate, di-n-butyl	84-74-2	700	ug/l
Phthalate, di-n-octyl	117-84-0	100	ug/l
Pyrene	129-00-0	200	ug/l
Selenium	7782-49-2	40	ug/l
Silvex	93-72-1	60	ug/l
Sodium	7440-23-5	50000	ug/l
Styrene	100-42-5	100	ug/l
Sulfate	14808-79-8	250000	ug/l
Tetrachloroethane-1,1,2,2	79-34-5	1	ug/l
Tetrachloroethylene	127-18-4	1	ug/l
Thallium	7440-28-0	2	ug/l

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Toluene	108-88-3	600	ug/l
Toxaphene	8001-35-2	2	ug/l
Trichlorobenzene-1,2,4	120-82-1	9	ug/l
Trichloroethane-1,1,1	71-55-6	30	ug/l
Trichloroethane-1,1,2	79-00-5	3	ug/l
Trichloroethylene	79-01-6	1	ug/l
Trichlorophenol-2,4,5	95-95-4	700	ug/l
Trichlorophenol-2,4,6	88-06-2	20	ug/l
Vinyl chloride	75-01-4	1	ug/l
Xylenes, total	1330-20-7	1000	ug/l
Zinc	7440-66-6	2000	ug/l
New Jersey Interim Groundwater Quality Criteria Posted at http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm as of June 15 2009			
Acenapthylene	208-96-8	100	ug/l
Acetonitrile	75-05-8	100	ug/l
Benzo(g,h,i)perylene	191-24-2	100	ug/l
Caprolactam	105-60-2	5000	ug/l
4-chloro-3-methylphenol	59-50-7	100	ug/l
Chloroethane	75-00-3	5	ug/l
Cobalt	7440-48-4	100	ug/l
Dichlormid	37764-25-3	600	ug/l
Dimethyl phthalate	131-11-3	100	ug/l
4,6-dinitro-o-cresol	534-52-1	1	ug/l
1,4-dioxane	123-91-1	10	ug/l
Diphenyl ether	101-84-8	100	ug/l
2-ethyl-1-hexanol	104-76-7	200	ug/l
n-heptane	142-82-5	100	ug/l
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	0.5	ug/l
2-hexanone	591-78-6	300	ug/l
Metolachlor	51218-45-2	100	ug/l
2-(2-methyl-4-chlorophenoxy) propionic acid (MCCP)	93-65-2	7	ug/l
2-methylnapthalene	91-57-6	30	ug/l
n-propanol	71-23-8	100	ug/l
Perchlorate	14797-73-0	5	ug/l
Phenanthrene	85-01-8	100	ug/l
2,4,6-trinitrolouene (TNT)	118-96-7	1	ug/l
USEPA Maximum Contaminant Levels Posted at http://www.epa.gov/safewater/contaminants/index.html as of June 15 2009			
Antimony	7440-36-0	6	ug/l
Arsenic	7440-38-2	10	ug/l
Atrazine	1912-24-9	3	ug/l
Barium	7440-39-3	2000	ug/l
Benzene	71-43-2	5	ug/l
Benzo(a)pyrene	50-32-8	0.2	ug/l
Beryllium	7440-41-7	4	ug/l
BHC, gamma (Lindane)	58-89-9	0.2	ug/l

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Bromoform	75-25-2	80	ug/l
Cadmium	7440-43-9	5	ug/l
Carbon tetrachloride	56-23-5	5	ug/l
Chlordane	57-74-9	2	ug/l
Chlorobenzene	108-90-7	100	ug/l
Chloroform		80	ug/l
Chromium	7440-47-3	100	ug/l
Copper	7440-50-8	1300	ug/l
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.2	ug/l
Dibromochloromethane	124-48-1	80	ug/l
Dibromoethane-1,2	106-93-4		ug/l
Dichlorobenzene-1,2	95-50-1	600	ug/l
Dichlorobenzene-1,4	106-46-7	75	ug/l
Dichlorobromomethane	75-27-4	80	ug/l
Dichloroethane-1,2	107-06-2	5	ug/l
Dichloroethene-1,2 trans	156-60-5	100	ug/l
Dichloroethylene-1,1	75-35-4	7	ug/l
Dichloroethylene-1,2 cis	156-59-2	70	ug/l
Dichloropropane-1,2	78-87-5	5	ug/l
Endrin	72-20-8	2	ug/l
Ethylbenzene	100-41-4	700	ug/l
Heptachlor	76-44-8	0.4	ug/l
Heptachlor Epoxide	1024-57-3	0.2	ug/l
Hexachlorobenzene	118-74-1	1	ug/l
Hexachlorocyclopentadiene	77-47-4	50	ug/l
Lead	7439-92-1	15	ug/l
Lindane		0.2	ug/l
Mercury	7439-97-6	2	ug/l
Methoxychlor	72-43-5	40	ug/l
Methylene chloride	75-09-2	5	ug/l
Pcb-araclor 1016	12674-11-2	0.5	ug/l
Pcb-araclor 1221	11104-28-2	0.5	ug/l
Pcb-araclor 1232	11141-16-5	0.5	ug/l
Pcb-araclor 1242	53469-21-9	0.5	ug/l
Pcb-araclor 1248	12672-29-6	0.5	ug/l
Pcb-araclor 1254	11097-69-1	0.5	ug/l
Pcb-araclor 1260	11096-82-5	0.5	ug/l
PCBs	1336-36-3	0.5	ug/l
PCP (Pentachlorophenol)	87-86-5	1	ug/l
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	6	ug/l
Selenium	7782-49-2	50	ug/l
Styrene	100-42-5	100	ug/l
Tetrachloroethylene	127-18-4	5	ug/l
Thallium	7440-28-0	2	ug/l
Toluene	108-88-3	1000	ug/l
Toxaphene	8001-35-2	3	ug/l
Trichlorobenzene-1,2,4	120-82-1	70	ug/l
Trichloroethane-1,1,1	71-55-6	200	ug/l
Trichloroethane-1,1,2	79-00-5	5	ug/l
Trichloroethylene	79-01-6	5	ug/l

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Vinyl chloride	75-01-4	2	ug/l
Xylenes, total	1330-20-7	10000	ug/l
USEPA Secondary Drinking Water Standards Posted at http://www.epa.gov/safewater/contaminants/index.html as of June 15 2009			
Aluminum	7429-90-5	50	ug/L
Copper	7440-50-8	1000	ug/L
Iron	7439-89-6	300	ug/L
Manganese	7439-96-5	50	ug/L
Silver	7440-22-4	100	ug/L
Zinc	7440-66-6	5000	ug/L
NJ Sediment Screening Values Posted at http://www.state.nj.us/dep/srp/regs/sediment/o3_screen.htm as of June 15 2009			
Acenaphthylene	208-96-8	0.044	mg/kg
Aldrin	309-00-2	0.002	mg/kg
Anthracene	120-12-7	0.22	mg/kg
Arsenic	7440-38-2	6	mg/kg
Benzene	71-43-2	0.34	mg/kg
Benzo(a)anthracene	56-55-3	0.32	mg/kg
Benzo(a)pyrene	50-32-8	0.37	mg/kg
Benzo(g,h,I)perylene	191-24-2	0.17	mg/kg
Benzo(k)fluoranthene	207-08-9	0.24	mg/kg
BHC, alpha	319-84-6	0.006	mg/kg
BHC, beta	319-85-7	0.005	mg/kg
BHC, delta	319-86-8	0.003	mg/kg
BHC, gamma (Lindane)	58-89-9	0.003	mg/kg
Cadmium	7440-43-9	0.6	mg/kg
Chlordane	57-74-9	0.007	mg/kg
Chromium	7440-47-3	26	mg/kg
Chrysene	218-01-9	0.34	mg/kg
Copper	7440-50-8	16	mg/kg
DDD-4,4	72-54-8	0.008	mg/kg
DDE-4,4	72-55-9	0.005	mg/kg
DDT-4,4	50-29-3	0.008	mg/kg
Dibenzo(a,h)anthracene	53-70-3	0.06	mg/kg
Dieldrin	60-57-1	0.002	mg/kg
Endrin	72-20-8	0.003	mg/kg
Ethylbenzene	100-41-4	1.4	mg/kg
Fluoranthene	206-44-0	0.75	mg/kg
Fluorene	86-73-7	0.19	mg/kg
Heptachlor Epoxide	1024-57-3	0.005	mg/kg
Indeno(1,2,3-cd)pyrene	193-39-5	0.2	mg/kg
Lead	7439-92-1	31	mg/kg
Mercury	7439-97-6	0.2	mg/kg
Methylnaphthalene-2	91-57-6	0.07	mg/kg
Naphthalene	91-20-3	0.16	mg/kg
Nickel	7440-02-0	16	mg/kg
Pcb-araclor 1016	12674-11-2	0.007	mg/kg
Pcb-araclor 1016	12674-11-2	0.007	mg/kg

Appendix
Table
Standards and Criteria Used to Evaluate OU2 Sampling Results
Daimond Head RI/FS
Operable Unit 2

Compound	CAS	Standard	Units
Pcb-araclor 1248	12672-29-6	0.03	mg/kg
Pcb-araclor 1248	12672-29-6	0.03	mg/kg
Pcb-araclor 1254	11097-69-1	0.06	mg/kg
Pcb-araclor 1254	11097-69-1	0.06	mg/kg
Pcb-araclor 1260	11096-82-5	0.005	mg/kg
Pcb-araclor 1260	11096-82-5	0.005	mg/kg
Phenanthrene	85-01-8	0.56	mg/kg
Pyrene	129-00-0	0.49	mg/kg
Silver	7440-22-4	1	mg/kg
Tetrachloroethylene	127-18-4	0.45	mg/kg
Toluene	108-88-3	2.5	mg/kg
Trichloroethylene	79-01-6	1.6	mg/kg
Xylenes, total	1330-20-7	0.12	mg/kg
Zinc	7440-66-6	120	mg/kg
NOAA Screening Quick Reference Tables, SQuiRTs as of June 15 2009			
Cobalt	7440-48-4	50	mg/kg
Hexachlorobenzene	118-74-1	0.02	mg/kg
Manganese	7439-96-5	460	mg/kg

Appendix B
Well Information, Boring Logs, Well Construction Diagrams, and Well Development Logs

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Boring Logs

Well Construction Logs

Well Development Logs

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Well Information
Diamond Head RI/FS
Operable Unit 2

Well Number	Northing	Easting	Ground Elevation in feet above mean sea level	Elevation of Outer Casing in feet above mean sea level	Elevation of Inner Casing in feet above mean sea level	Finished Well Depth in feet below ground surface	Screen Length (ft)	Screen Diameter (inches)	Screen Material	Slot size
MW-01	698066.3413	593613.1321	8.71	11.09	10.81	---	---	---	---	---
MW-02	698143.4833	594195.8401	9.57	12.27	12.06	---	---	---	---	---
MW-03	697604.7197	594174.7131	12.53	14.96	14.79	---	---	---	---	---
MW-04	697395.7872	593686.3951	15.67	18.26	18.06	---	---	---	---	---
MW-05	697751.9053	593795.6618	18.45	20.96	20.81	---	---	---	---	---
MW-06S	698192.5238	593597.9093	7.57	11.04	11.15	8	6	4	SCHED. 40 PVC	20 SLOT
MW-07S	698299.2951	594162.4191	7.7	11.66	11.51	13	10	4	SCHED. 40 PVC	20 SLOT
MW-09S	698061.1389	593980.9798	10.44	14	13.94	12	11	4	SCHED. 40 PVC	20 SLOT
MW-10S	697983.5116	593572.4382	6.81	9.65	9.7	9	7	4	SCHED. 40 PVC	20 SLOT
MW-10D	697953.4818	593571.7198	6.72	10.02	10.07	28	10	4	SCHED. 40 PVC	20 SLOT
MW-11S	697815.9211	594065.3157	9.54	12.7	12.72	12	10	4	SCHED. 40 PVC	20 SLOT
MW-11D	697841.0883	594056.3677	9.05	12.46	12.4	30	10	4	SCHED. 40 PVC	20 SLOT
MW-12S	697950.8011	594210.6164	10.66	14.28	14.08	14	12	4	SCHED. 40 PVC	20 SLOT
MW-13S	697870.3321	594246.3903	9.72	12.36	12.54	14	12	4	SCHED. 40 PVC	20 SLOT
MW-13D	697853.3836	594249.1526	10.15	12.89	12.85	30	10	4	SCHED. 40 PVC	20 SLOT
MW-14S	697697.4635	594055.1455	12.29	15.2	15.17	16	14	4	SCHED. 40 PVC	20 SLOT
MW-15S	697084.0427	593598.4443	7.66	10.77	10.76	12	10	4	SCHED. 40 PVC	20 SLOT
MW-15D	697097.1677	593632.8154	7.56	10.77	10.77	30	10	4	SCHED. 40 PVC	20 SLOT
MW-17S	697913.2191	594635.9087	9.38	9.53	9.12	13	10	4	SCHED. 40 PVC	20 SLOT
*MW-18S	698332.3621	594381.4436	6.8	10.14	9.94	12	10	2	SCHED. 40 PVC	10 SLOT
*MW-19S	698354.0105	594937.9254	26.7	29.82	29.59	29	10	2	SCHED. 40 PVC	10 SLOT
*MW-20S	698117.4176	595048.1118	24.3	27.52	27.16	27	10	2	SCHED. 40 PVC	10 SLOT
*MW-21S	698519.3645	594116.8035	6.8	6.87	6.41	9	6	2	SCHED. 40 PVC	10 SLOT
*MW-23S	697471.1961	593385.3629	7.4	7.38	6.64	9	6	2	SCHED. 40 PVC	10 SLOT
*MW-24S	697011.7357	593393.0424	6.2	6.19	5.62	9	6	2	SCHED. 40 PVC	10 SLOT
*MW-25S	696730.5968	593584.6747	15.2	15.25	14.76	21	10	2	SCHED. 40 PVC	10 SLOT
*MW-26S	697380.5339	594649.8385	10.1	10.01	9.58	17	13	2	SCHED. 40 PVC	10 SLOT
PZ-01	697627.0208	594178.96	11.81	15.29	15.25	15	14	2	SCHED. 40 PVC	20 SLOT
PZ-02	697645.7707	594180.1174	11.88	15.66	15.66	15	14	2	SCHED. 40 PVC	20 SLOT
PZ-03	697661.5366	594179.2194	12.09	15.77	15.69	15	14	2	SCHED. 40 PVC	20 SLOT
PZ-04	697609.4962	594186.7318	11.92	15.52	15.47	16	15	2	SCHED. 40 PVC	20 SLOT
PZ-05	697613.8557	594208.7966	11.61	15.47	15.01	16	15	2	SCHED. 40 PVC	20 SLOT

Appendix
Table
Well Information
Diamond Head RI/FS
Operable Unit 2

Well Number	Northing	Easting	Ground Elevation in feet above mean sea level	Elevation of Outer Casing in feet above mean sea level	Elevation of Inner Casing in feet above mean sea level	Finished Well Depth in feet below ground surface	Screen Length (ft)	Screen Diameter (inches)	Screen Material	Slot size
PZ-06	697612.0678	594231.6012	11.28	15.22	15.26	15	14	2	SCHED. 40 PVC	20 SLOT
PZ-07	697584.6657	594170.9525	12.48	16.53	16.51	16	15	2	SCHED. 40 PVC	20 SLOT
PZ-08	697565.3107	594171.5218	11.92	15.86	15.86	15	14	2	SCHED. 40 PVC	20 SLOT
PZ-09	697546.014	594171.4054	11.85	15.6	15.57	16	15	2	SCHED. 40 PVC	20 SLOT
PZ-10	697608.9075	594152.5608	12.4	15.98	16.01	16	15	2	SCHED. 40 PVC	20 SLOT
PZ-11	697608.0505	594135.3725	12.59	16.06	16.07	15	14	2	SCHED. 40 PVC	20 SLOT
PZ-12	697623.3306	594119.8596	12.11	16.02	15.92	15	14	2	SCHED. 40 PVC	20 SLOT
PZ-13	697721.9003	594137.6117	11.04	14.74	13.74	13	11	2	SCHED. 40 PVC	20 SLOT
PZ-14	697756.7848	594194.0596	11.51	15.35	15.22	13	11	2	SCHED. 40 PVC	20 SLOT
PZ-15	697730.2264	594311.724	11.05	14.51	14.02	13	11	2	SCHED. 40 PVC	20 SLOT
PZ-16	698031.5319	594157.205	9	11.73	11.5	11	9	2	SCHED. 40 PVC	20 SLOT
PZ-17	697981.7223	594239.8796	9.09	12.95	12.75	12	10	2	SCHED. 40 PVC	20 SLOT

Notes:
* Denotes wells installed during the 2009 OU2 remedial investigation.
Horizontal datum is on the New Jersey state plane coordinate system (NAD 1983 datum).
Vertical datum is NAVD 1988.
Standard of accuracy: horizontal (.01'), vertical (.01').
All measurements are in US survey feet.
All on site measurements were done with traditional surveying techniques.
Static baseline GPS was used to establish horizontal and vertical controls from nearest NGS monumentation.

Boring Logs

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-18S
PROJECT NUMBER: 388641.03.03.02
LOCATION: NJDOT Median bound between I-280 E entrance and exit ramps and Harrison Ave.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 10.14 feet msl
TOTAL DEPTH: 12.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/12/2009 8:30:00 AM
FINISH: 5/12/2009 9:30:00 AM
NORTHING: 698332.36 feet
EASTING: 594381.44 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-2		6-10-12-20	22	1.6	0-1.6	Dark yellowish brown (10YR 4/2), well sorted, fine SAND, some clay, some silt, little organics, dry, loose (NOTE: Organics consist of plant material.)				PID inoperable. Awaiting replacement. Middle analytical sample location to be based on visual and olfactory evidence.
1							1.6-2.0	NO RECOVERY				
2	2	2-4		35-33-26-10	59	1.3	2-3.3	Grayish brown (5YR 3/2), fine to medium SAND and silt, little clay, little refuse, dry, loose (NOTE: Refuse contains grey colored cemented gravel and sand and also cinders. Strong fuel like odor.)				
3							3.3-4	NO RECOVERY				
4	3	4-6		1-5-3-3	8	2	4-4.4	SAA, fine to medium SAND and silt				
							4.4-4.7	Moderate yellowish brown (10 YR 5/4), CLAY and fine to medium sand, little organics, moist, soft				
5							4.7-6.0	Dark gray (N3), medium to coarse SAND, some fine gravel, little silt, wet, loose (NOTE: -Slight sheen. Very strong PHC odor throughout interval 4.7 - 5.4 ft bgs.)				
6	4	6-8		2-1-1-1	2	1.4	6-6.5	SAA, medium to coarse SAND (NOTE: strong sheen and odor.)				
7							6.5-8.0	Dark gray (N3), mottled (, brownish gray), CLAY, high plasticity, wet (NOTE: Slight sheen throughout clay.)				
8	5	8-10		6-1-9-4	10	0.8	8-8.8	Dark gray (N3), CLAY, little silt, high plasticity, wet, soft (NOTE: Slight sheen. Slight oil like odor. Small (< 1 inch) lense of sand and refuse at 8.8 ft BGS.)				
9							8.8-10	NO RECOVERY				

NOTES: Boring terminated at 12ft BGS
Peat layer observed from 11.6-12.0ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA

BORING NUMBER: MW-18S

PROJECT NUMBER: 388641.03.03.02

LOCATION: NJDOT Median bound between I-280 E entrance and exit ramps and Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
10	6	10-12		1-3-1-3	4	2	10-11.6	Dark gray (N3), silty CLAY, some coarse sand, wet, soft (NOTE: Slight oil like odor. Slight sheen on water.)				
11							11.6-12	Moderate brown (5YR 4/4), friable, PEAT, moist				
12												

NOTES: Boring terminated at 12ft BGS
Peat layer observed from 11.6-12.0ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-19S
PROJECT NUMBER: 388641.03.03.02
LOCATION: I-280 West cloverleaf area near exit ramp onto Harrison Ave.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 29.82 feet msl
TOTAL DEPTH: 30.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/13/2009 9:00:00 AM
FINISH: 5/13/2009 1:20:00 PM
NORTHING: 698354.01 feet
EASTING: 594937.92 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-2		5-9-5-6	14	1.8	0-1.8	Grayish brown (5YR 3/2), SILT, some fine sand, little refuse, trace organics, dry, soft (NOTE: Refuse includes glass and cinders.)		0		
1												
							1.8-2	NO RECOVERY				
2	2	2-4		12-22-25-24	47	1.8	2.0-3.8	SAA, SILT, little wood, trace brick, stiff		0.5		
3												
							3.8-4.0	NO RECOVERY				
4	3	4-6		9-5-6-7	11	0.5	4-4.5	Dusky yellowish brown (10YR 2/2), SILT, little fine sand, trace fine gravel, little refuse, moist, stiff (NOTE: Refuse contains plant debris and a small (<1 inch) lense of cemented sand. Slight PHC odor present. Poor recovery due to refuse.)		1.4		
							4.5-6	NO RECOVERY				
5												
6	4	6-8		11-9-10-8	19	0.8	6-6.8	Dark gray (N3), silty CLAY, some refuse, moist, soft (NOTE: Refuse contains glass, brick, concrete, plastic sheeting. Strong PHC odor. Poor recovery due to refuse.)		197		
							6.8-8	NO RECOVERY				
7												
8	5	8-10		11-16-13-10	29	0.7	8-8.7	Dark gray (N3), REFUSE, little silt, moist (NOTE: Refuse contains wood, plastic sheeting. Slight PHC odor.)		20		
							8.7-10	NO RECOVERY				
9												

NOTES: Boring terminated at 30ft BGS
Peat layer observed from 29.9-30.0ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** MW-19S

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
10	6	10-12		6-7-8-9	15	0.3	10-10.3	SAA, REFUSE (NOTE: Slight PHC odor.)		391		
							10.3-12	NO RECOVERY				
11												
12	7	12-14		100-100-100-100	200	0.2	12-12.2	REFUSE and wood (NOTE: Refuse contains glass and plastic. Poor recovery.)		147		A 3 inch split spoon was used from 12 ft BGS to 30 ft BGS to attempt better recovery while drilling through the refuse.
							12.2-14	NO RECOVERY				
13												
14	8	14-16		100-100-100-100	200	0	14-16	NO RECOVERY				
15												
16	9	16-18		100-100-100-100	200	0	16-18	NO RECOVERY				
17												
18	10	18-20		100-100-100-100	200	2	18-19.3	Dark gray (N3), REFUSE, little silt, trace, dry (NOTE: Refuse contains wood, trace plastic sheeting.)		51		
19												
							19.3-20	Very light grey (N8), well sorted, fine SAND, little medium sand, moist, loose		0.8		
20	11	20-22		10-9-7-6	16	2	20-22	SAA, fine SAND		0.3		

NOTES: Boring terminated at 30ft BGS
Peat layer observed from 29.9-30.0ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** MW-19S

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
21												
22	12	22-24					22-22.4	SAA, mottled (, moderate yellowish brown), fine SAND, wet		1.5		
							22.4-23.2	Grayish brown (5YR 3/2), SILT, some medium gravel, little clay, little fine to medium sand, low plasticity, wet, stiff (NOTE: Slight odor.)		12		
23							23.2-24	NO RECOVERY				
24	13	24-26		7-43-43-49	86	1.5	24-25.5	SAA, SILT (NOTE: Slight PHC odor)		12		
25							25.5-26	NO RECOVERY				
26	14	26-28		11-10-13-8	23	2	26-27	Black (N1), fine SAND, little silt, little refuse, wet, loose (NOTE: Refuse contains wood and glass. No odor or sheen.)		905		
27							27-28	Grayish brown (5YR 3/2), well sorted, SILT and fine sand, little fine gravel, wet		0		
28	15	28-30		2-2-3-8	5	2	28-28.1 28.1-29.9	Black (N1), fine SAND, little silt, little refuse, wet, loose (NOTE: Refuse contains wood and glass. Contaminates volatilize very quickly when measured using the PID) Dark yellowish brown (10YR 4/2), silty CLAY, medium plasticity, moist, soft		1230 11.7		
29												
30							29.9-30	Dusky yellowish brown (10YR 2/2), friable, PEAT		0		

NOTES: Boring terminated at 30ft BGS
Peat layer observed from 29.9-30.0ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-20S
PROJECT NUMBER: 388641.03.03.02
LOCATION: NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 27.52 feet msl
TOTAL DEPTH: 30.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/14/2009 8:15:00 AM
FINISH: 5/14/2009 9:30:00 AM
NORTHING: 698117.41 feet
EASTING: 595048.11 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-2		12-51-85-20	136	1.5	0.0-0.5	Dusky yellowish brown (10YR 2/2), silty CLAY, some organics, low plasticity, moist, stiff		5		PID may be affected by high humidity
							0.5-1.5	Dusky yellowish brown (10YR 2/2), SILT and fine to medium sand, some refuse, moist, soft (NOTE: Refuse contains gravel, cinders, brick, and glass.)		16		
1							1.5-2.0	NO RECOVERY				
2	2	2-4		4-6-7-13	13	1.3	2-3.3	Medium gray (N5), silty CLAY, some fine sand, some refuse, moist, stiff (NOTE: Refuse contains plastic sheeting, glass, wood. Organic like odor.)		8		
3							3.3-4.0	NO RECOVERY				
4	3	4-6		11-34-55-20	89	1.5	4-5.5	SAA, silty CLAY		8		
5							5.5-6.0	NO RECOVERY				
6	4	6-8		22-34-47-20	81	1.4	6-7.4	Medium gray (N5), silty CLAY, some fine sand, some refuse, moist, soft (NOTE: Refuse contains wood, cinders, and gravel.)		56		
7							7.4-8.0	NO RECOVERY				
8	5	8-10		3-6-7-7	13	0.7	8-8.7	Grayish black (N2), silty CLAY, some fine sand, little refuse, moist, very stiff (NOTE: Refuse contains glass, plant debris.)		8		
9							8.7-10	NO RECOVERY				
10	6	10-12		8-5-5-6	10	2	10-11.9	Medium dark gray (N4), silty CLAY, some refuse		8		

NOTES: Boring terminated at 30ft BGS
Peat layer observed from 28-29.3.0ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** MW-20S

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
								(NOTE: Refuse contains brick, concrete, glass, paper.)				
11												
								Dark yellowish brown (10YR 4/2), friable, PEAT, moist				
12	7	12-14		5-10-15-20	25	1	11.9-12 12-13	Medium dark gray (N4), silty CLAY, some refuse (NOTE: Refuse contains brick, concrete, glass, paper). Organic like odor present.)		6 9		
13							13-14	NO RECOVERY				
14	8	14-16		6-1-3-5	4	1.9	14-15.9	Medium gray (N5), mottled (, dark yellowish brown), clayey SILT, little refuse, medium plasticity, moist (NOTE: Refuse contains plastic and wood. Organic like odor)		7		
15												
								NO RECOVERY				
16	9	16-18		8-7-5-6	12	0.5	15.9-16 16-16.5	SAA, clayey SILT (NOTE: Low recovery due to refuse)		5		
							16.5-18	NO RECOVERY				
17												
								Dark gray (N3), REFUSE, little silt, wet, loose (NOTE: Refuse contains wood, rubber, plastic. Organic like odor.)				
18	10	18-20		12-100-100-100	200	0.2	18-18.2 18.2-20	NO RECOVERY		5		
19												
								Dark gray (N3), mottled (, moderate yellowish brown), silty CLAY, some fine to medium sand, wet, soft				
20	11	20-22		8-18-8-39	26	0.8	20-20.4			4		
							20.4-20.8	Moderate yellowish brown (10 YR 5/4), coarse GRAVEL		4		
							20.8-22					
21								NO RECOVERY				
22	12	22-24		11-19-10-30	29	1	22-24	Dark yellowish brown (10YR 4/2), poorly sorted, fine to coarse SAND and fine gravel, some clay, wet, loose (NOTE: Sheen present with very small		5		

NOTES: Boring terminated at 30ft BGS
Peat layer observed from 28-29.3.0ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** MW-20S

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
								LNAPL globules. Slight oil like odor.)				
23												
								SAA, fine to coarse SAND, wet (NOTE: Poor recovery. Heavy sheen in water lining the spoon.)				
24	13	24-26		13-14-14-7	28	.1	24-24.1 24.1-26	NO RECOVERY		4		
25												
26	14	26-28		6-6-5-7	11	2	26-28	SAA, fine to coarse SAND, some silt, wet (NOTE: Oil sheen observed in water. Very small LNAPL globules present. Slight oil like odor.)		4		
27												
28	15	28-30		8-7-8-9		2	28-29.3	Dark yellowish brown (10YR 4/2), friable, PEAT, moist, medium dense		4		
29												
30												

NOTES: Boring terminated at 30ft BGS
Peat layer observed from 28-29.3.0ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-21S
PROJECT NUMBER: 388641.03.03.02
LOCATION: (433 Bergen Ave., Kearny NJ)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 6.87 feet msl
TOTAL DEPTH: 10.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/15/2009 10:45:00 AM
FINISH: 5/15/2009 11:30:00 AM
NORTHING: 698519.36 feet
EASTING: 594116.8 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-4				0	0-4	Moderate reddish brown (10R 4/6), SILT and fine to coarse sand, some brick, some coarse gravel, moist, loose		0		No sample from 0-4 ft BGS due to hang augering to 5 ft BGS. Lithology was described by observing soil from hand auger.
1												
2												
3												
4	2	4-6		4-14-14-9	28	.8	4-4.8	Dark yellowish brown (10YR 4/2), mottled (, very pale orange), poorly sorted, coarse SAND and fine to coarse gravel, wet, loose		0		
5							4.8-6	NO RECOVERY				
6	3	6-8		4-14-100-100	114	1.1	6-7	SAA, coarse SAND				
7							7-7.1 7.1-8.0	Grayish black (N2), fine to medium SAND and silt, some medium to coarse sand, little organics, wet, loose (NOTE: Slight unknown sweet odor.) NO RECOVERY		0		
8	4	8-10		37-8-7-7	15	1.8	8-8.5	SLOUGH		0		
9							8.5-9.4	Grayish black (N2), CLAY, some silt, moist, stiff (NOTE: slight unknown odor)		0		
10							9.4-9.8	Grayish brown (5YR 3/2), friable, PEAT, moist, soft		1		
							9.8-10	NO RECOVERY				

NOTES: Boring terminated at 10ft BGS
Peat layer observed from 9.4-9.8ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-21S
PROJECT NUMBER: 388641.03.03.02
LOCATION: (433 Bergen Ave., Kearny NJ)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 6.87 feet msl
TOTAL DEPTH: 10.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/15/2009 10:45:00 AM
FINISH: 5/15/2009 11:30:00 AM
NORTHING: 698519.36 feet
EASTING: 594116.8 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-4				0	0-4	Moderate reddish brown (10R 4/6), SILT and fine to coarse sand, some brick, some coarse gravel, moist, loose		0		No sample from 0-4 ft BGS due to hang augering to 5 ft BGS. Lithology was described by observing soil from hand auger.
1												
2												
3												
4	2	4-6		4-14-14-9	28	.8	4-4.8	Dark yellowish brown (10YR 4/2), mottled (, very pale orange), poorly sorted, coarse SAND and fine to coarse gravel, wet, loose		0		
5							4.8-6	NO RECOVERY				
6	3	6-8		4-14-100-100	114	1.1	6-7	SAA, coarse SAND				
7							7-7.1 7.1-8.0	Grayish black (N2), fine to medium SAND and silt, some medium to coarse sand, little organics, wet, loose (NOTE: Slight unknown sweet odor.) NO RECOVERY		0		
8	4	8-10		37-8-7-7	15	1.8	8-8.5	SLOUGH		0		
9							8.5-9.4	Grayish black (N2), CLAY, some silt, moist, stiff (NOTE: slight unknown odor)		0		
10							9.4-9.8	Grayish brown (5YR 3/2), friable, PEAT, moist, soft		1		
							9.8-10	NO RECOVERY				

NOTES: Boring terminated at 10ft BGS
Peat layer observed from 9.4-9.8ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-23S
PROJECT NUMBER: 388641.03.03.02
LOCATION: Campbell Distribution Foundry - northern boring (1235 Harrison Ave., Kearny NJ)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 7.40 feet msl
TOTAL DEPTH: 10.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/18/2009 10:00:00 AM
FINISH: 5/18/2009 10:30:00 AM
NORTHING: 697471.19 feet
EASTING: 593385.36 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-2		0-30-50-50	80	0.9	0-0.5	ASPHALT		0		
1							0.5-1.4	Grayish black (N2), SILT, some fine to medium sand, some refuse, dry, firm (NOTE: Refuse contains glass, cinders, concrete.)		1		
							1.4-2.0	NO RECOVERY				
2	2	2-4		13-50-59-60	109	1.6	2-3.1	SAA, SILT, little brick (NOTE: Fill)		0.7		
3							3.1-3.6	Moderate brown (5YR 3/4), intermixed, medium GRAVEL, some concrete, dry (NOTE: Fill - Gravel appears to be weathered shale.)		0.1		
							3.6-4	NO RECOVERY				
4	3	4-6		39-8-5-7	13	0	4-6	NO RECOVERY, wet				
5												
6	4	6-8		6-4-9-7	13	2	6-8	Brownish black (5YR 2/1), moderately sorted, medium SAND, some silt, some clay, wet (NOTE: slight sheen at 7 ft BGS in soil and GW. Slight oil like odor.)		9		
7												
8	5	8-10		1-100-100-1	200	1.7	8-8.3	SAA, medium SAND		5		
							8.3-9.7	Medium gray (N5), mottled (, light olive gray), silty CLAY, some organics, moist, soft (NOTE: Rootlets increasing with depth (peat).)		1.7		
9												
10							9.7-10	NO RECOVERY				

NOTES: Boring terminated at 10ft BGS
Peat layer observed from approximately 8.3-9.7ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-24S
PROJECT NUMBER: 388641.03.03.02
LOCATION: Campbell Distribution Foundry - southern boring
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 6.19 feet msl
TOTAL DEPTH: 10.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/18/2009 11:00:00 AM
FINISH: 5/18/2009 12:00:00 PM
NORTHING: 697011.73 feet
EASTING: 593393.04 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-2		26-37-37-32	74	1.4	0-1.4	Grayish black (N2), SILT, some fine to medium sand, some refuse, dry, medium dense (NOTE: Refuse contains glass, cinders, and concrete.)		0		
1							1.4-2.0	NO RECOVERY				
2	2	2-4		44-100-100-100	200	0.9	2-2.9	SAA, SILT (NOTE: with brick and clothe refuse. Slight organic like odor.)		0.9		
3							2.9-4	NO RECOVERY				
4	3	4-6		27-20-10-11		1.6	4-5.6	Dark gray (N3), SILT and fine to medium sand, some refuse, moist, soft (NOTE: Refuse contains concrete, gravel, plant material.)		1.1		
5							5.6-6	NO RECOVERY				
6	4	6-8		12-9-7-8	16	1.8	6-7.7	Brownish black (5YR 2/1), well sorted, medium SAND, some silt, little fine gravel, wet (NOTE: Slight unknown (fuel like?) odor.)		0.6		
7												

NOTES: Boring terminated at 10ft BGS
Peat layer observed from 9.6-10.0ft BGS
(1235 Harrison Ave., Kearny NJ)

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** MW-24S

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Campbell Distribution Foundry - southern boring

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
							7.7-7.8	Dark gray (N3), silty CLAY, moist, soft		1.6		
							7.8-8.0	NO RECOVERY				
8	5	8-10		1-100-100-1	200	2	8-9.6	Medium gray (N5), mottled (, light olive gray), silty CLAY, moist, soft (NOTE: Slight unknown (fuel like) odor.)		6		
9												
							9.6-10	Dusky yellowish brown (10YR 2/2), friable, PEAT, moist		0		
10												

NOTES: Boring terminated at 10ft BGS
Peat layer observed from 9.6-10.0ft BGS
(1235 Harrison Ave., Kearny NJ)

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-25S
PROJECT NUMBER: 388641.03.03.02
LOCATION: Western boring located in the center I-280 median southwest of the site.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 15.25 feet msl
TOTAL DEPTH: 24.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/9/2009 9:15:00 AM
FINISH: 5/9/2009 11:45:00 AM
NORTHING: 696730.59 feet
EASTING: 593584.67 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-2		7-10-16-20	26	1.4	0-0.7	Dark yellowish brown (10YR 4/2), SILT, some organics, wet, loose (NOTE: Silty loam with plant roots.)		0		
1							0.7-1.4	Dark yellowish brown (10YR 4/2), fine to medium SAND and silt, little clay, little refuse, wet, loose (NOTE: Refuse contains cinders and brick fragments.)		0		
							1.4-2.0	NO RECOVERY				
2	2	2-4		13-12-14-10	26	1.5	2-3.5	Dark yellowish brown (10YR 4/2), moderately sorted, fine to medium SAND, little silt, little refuse, moist (NOTE: Refuse contains brick, cinders, plastic sheeting.)		0		
3							3.5-4	NO RECOVERY				
4	3	4-6		5-4-11-13	15	1.6	4-4.5	Medium gray (N5), moderately sorted, fine SAND and silt, some fine gravel, trace refuse, moist, loose (NOTE: Refuse contains glass. Trace organics.)		0		
5							4.5-5.6	Dark yellowish brown (10YR 4/2), fine to medium SAND, little silt, moist (NOTE: Trace shells.)		0		
							5.6-6	NO RECOVERY				
6				13-14-16-10	30	2	6-8	SAA, well sorted, well rounded, fine SAND and silt, moist (NOTE: Trace shells.)		0		
7								SLOUGH				
8	5	8-10		10-13-14-15	27	1.3	8-8.2	Moderate brown (5YR 3/4), well sorted, fine to medium SAND, some fine gravel, moist, loose (NOTE: some shell fragments.)		0		
							8.2-9.3	NO RECOVERY		0		
9							9.3-10	SAA, fine to medium SAND				
10	6	10-12		7-21-40-32	61	1.6	10-11.6	NO RECOVERY		0		
11							11.6-12	SAA, fine to medium SAND, little fine gravel, wet				
12	7	12-14		30-37-38-37	75	2	12-14			0		

NOTES: Boring terminated at 24ft BGS
Peat layer observed from 21-22ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** MW-25S

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Western boring located in the center I-280 median southwest of the site.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13												
14	8	14-16		6-8-9-11	17	2	14-16	SAA, fine to medium SAND, wet		0		
15												
16	9	16-18		16-15-14-14	29	2	16-18	SAA, fine to medium SAND		0		
17												
18	10	18-20		4-4-3-4	7	1.8	18-18.8	SAA, fine to medium SAND		0		
19							18.8-19.8	Grayish black (N2), silty CLAY, some refuse, medium plasticity, moist, firm (NOTE: Refuse contains plastic. PHC like odor.)		0		
20	11	20-22		100-100-4-10	104	2	19.8-20.0 20-20.2 20.2-21	NO RECOVERY SLOUGH		0 0		
21							21-22	Grayish black (N2), CLAY, some fine to medium sand, some silt, little refuse, wet, soft (NOTE: Refuse contains plastic, straw like objects. Very slight sheen.)		0		
22	12	22-24				2	22-24	Moderate olive brown (5Y 4/4), friable, PEAT, some fine to medium sand, firm		0		
23								Dark yellowish brown (10YR 4/2), poorly sorted, fine to coarse SAND, little fine gravel, little silt, wet, loose				
24												

NOTES: Boring terminated at 24ft BGS
Peat layer observed from 21-22ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: MW-26S
PROJECT NUMBER: 388641.03.03.02
LOCATION: Eastern boring located in the center I-280 median south of the site.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 10.01 feet msl
TOTAL DEPTH: 18.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
SAMPLING METHOD: Split Spoon
CH2M GEOLOGIST: David Reamer
START: 5/16/2009 8:40:00 AM
FINISH: 5/16/2009 9:45:00 AM
NORTHING: 697380.53 feet
EASTING: 594649.83 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-2		6-10-14-17	24	1.5	0-1.5	Moderate yellowish brown (10 YR 5/4), well sorted, fine SAND, little silt, little fine gravel, dry, loose		18		PID may be affected by high humidity.
1							1.5-2.0	NO RECOVERY				
2	2	2-4		15-20-27-26	47	1.6	2-3.6	SAA, fine SAND		5		
3							3.6-4	NO RECOVERY				
4	3	4-6		7-7-8-7	15	1.7	4-5.7	SAA, fine SAND, moist		4		
5							5.7-6	NO RECOVERY				
6	4	6-8		3-2-2-2	4	1.8	6-7.8	SAA, fine SAND, wet		1		
7							7.8-8.0	NO RECOVERY				
8	5	8-10		1-1-1-1	2	0.4	8-8.3	SAA, fine SAND, wet		5		
							8.3-8.4			0		
							8.4-10	Medium light gray (N6), well sorted, fine to medium SAND, trace silt, wet, loose (NOTE: Mica fragments present in soil. Few shell fragments present.)				
9												
10	6	10-12		1-1-1-1	2	2	10-10.4	NO RECOVERY		0		
							10.4-12	SLOUGH		0		
11								SAA, Moderate brown (5YR 4/4), fine to medium SAND, trace clay				
12	7	12-14		1-1-6-12	7	1.2	12-12.9	SAA, fine SAND		0		

NOTES: Boring terminated at 18ft BGS
Peat layer observed from 17.2-17.7ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** MW-26S

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Eastern boring located in the center I-280 median south of the site.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13							12.9-13.2	Dark gray (N3), CLAY, some silt, little wood, moist, soft (NOTE: Wood at bottom of interval. Slight organic like odor. Very slight sheen.)		17		
							13.2-14	NO RECOVERY				
14	8	14-16		5-6-16-42	22	1.8	14-14.3	SLOUGH				
							14.3-15.8	Dark gray (N3), SILT and fine to medium sand, some refuse, wet, soft (NOTE: Refuse contains gravel, wood, cloth. Very light oil sheen.)		9		
15												
							15.8-16	NO RECOVERY				
16	9	16-18		6-8-12-43	20	1.9	16-17.2	Medium light gray (N6), moderately sorted, fine to coarse SAND, some silt, little fine gravel, wet, loose (NOTE: Increasing grain size with depth.)		0		
17							17.2-17.7	Moderate brown (5YR 3/4), friable, PEAT, moist		5		
							17.7-17.9	Pale yellowish brown (10YR 6/2), SILT and fine sand, moist, medium dense		0		
18							17.9-18	NO RECOVERY				

NOTES: Boring terminated at 18ft BGS
Peat layer observed from 17.2-17.7ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-39
PROJECT NUMBER: 388641.03.03.02
LOCATION: I-280 West cloverleaf area near exit ramp onto Harrison Ave.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 10.80 feet msl
TOTAL DEPTH: 15.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/8/2009 12:30:00 PM
FINISH: 5/8/2009 2:00:00 PM
NORTHING: 698388.73 feet
EASTING: 594709.45 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				2.8	0-0.3			0		
							0.3-1.4	Brownish gray (5YR 4/1), moderately sorted, SILT and fine to medium sand, some organics, moist, loose (NOTE: Contains plant roots and debris (silty loam))		0		
1												
							1.4-2.8	Brownish gray (5YR 4/1), poorly sorted, FILL, some fine to medium sand, some silt, wet, loose (NOTE: fill contains brick, glass, plant debris)		5		
2												
3							2.8-5	Grayish black (N2), silty CLAY, little fine gravel, low plasticity, moist, soft (NOTE: FILL - contains plant debris and refuse (brick, glass). Moderate PHC like odor)				
4								NO RECOVERY				
5	2	5-10				2.8	5.0-5.7	Grayish black (N2), silty CLAY, some fill, medium plasticity, moist, soft (NOTE: Fill contains plastic sheeting, wood. PHC like odor present)		23.8		
6							5.7-7.8	Dark gray (N3), fine to medium SAND and silt, little fill, wet, loose (NOTE: Fill contains wood. PHC like odor present)		16		
7												
8							7.8-10	NO RECOVERY				
9												
10	3	10-15				1.9	10-11.3	Medium gray (N5), silty CLAY, trace fill, low plasticity, wet, soft (NOTE: Fill contains plastic sheeting)		14.5		
11							11.3-11.5	BRICK				
							11.5-11.9			0		
12							11.9-15	friable, PEAT, moist (NOTE: Peat - friable w/ rootlets)				
13								NO RECOVERY				
14												
15												

NOTES: Boring terminated at 15ft BGS
Peat layer observed from 11.5-11.9 ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-40
PROJECT NUMBER: 388641.03.03.02
LOCATION: I-280 West cloverleaf area near exit ramp onto Harrison Ave.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 10.60 feet msl
TOTAL DEPTH: 20.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/8/2009 10:00:00 AM
FINISH: 5/8/2009 11:00:00 AM
NORTHING: 698408.81 feet
EASTING: 594806.87 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3	0-0.5	Dusky yellowish brown (10YR 2/2), moderately sorted, SILT and fine to medium sand, some organics, moist, loose (NOTE: Contains plant roots and debris (silty loam))		0.2		
							0.5-3			0		
1								Dusky yellowish brown (10YR 2/2), fine to medium SAND, some silt, little fine gravel, little refuse, wet, loose, laminated (NOTE: Small lense (<1 inch) of coarse sand and medium gravel. Refuse contains brick, plastic, roots.)				
2												
3							3-5	NO RECOVERY				
4												
5	2	5-10				3.	5-7.4	Dusky yellowish brown (10YR 2/2), fine to medium SAND, some silt, some fine gravel, some refuse, wet (NOTE: Refuse contains plant debris and small pieces of plastic (~1 inch diameter))		2.9		
6												
7							7.4-8.9	Moderate yellowish brown (10 YR 5/4), well sorted, fine SAND, wet, loose		0		
8												
9							8.9-10	NO RECOVERY		0		
10	3	10-15				5	10-10.3	SLOUGH		0		

NOTES: Boring terminated at 20ft BGS.
Peat layer observed from 15.1-15.5ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-40

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
							10.3-15	Moderate yellowish brown (10 YR 5/4), well sorted, fine SAND, some silt, little fine gravel, wet, loose		0		
11												
12												
13												
14												
15	4	15-20				2.5	15-15.1	Dark gray (N3), SILT, some fine sand, wet, loose		5		
							15.1-15.5	Moderate yellowish brown (10 YR 5/4), friable, PEAT, some clay, low plasticity, moist, soft		0		
							15.5-17.5	Moderate yellowish brown (10 YR 5/4), well sorted, fine SAND, some silt, little fine gravel, wet, loose		0		
16												
17												
							17.5-20	NO RECOVERY				
18												
19												
20												

NOTES: Boring terminated at 20ft BGS.
Peat layer observed from 15.1-15.5ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-41
PROJECT NUMBER: 388641.03.03.02
LOCATION: I-280 West cloverleaf area near exit ramp onto Harrison Ave.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 27.50 feet msl
TOTAL DEPTH: 40.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/7/2009 2:00:00 PM
FINISH: 5/7/2009 3:00:00 PM
NORTHING: 689194.31 feet
EASTING: 594706.11 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				2.6	0-0.5	Dusky yellowish brown (10YR 2/2), fine to medium SAND, some silt, some organics, moist, loose (NOTE: Plant roots present (sandy loam))		0		
							0.5-2.1	Dusky yellowish brown (10YR 2/2), moderately sorted, fine to coarse SAND, little silt, little fine gravel, moist, loose (NOTE: Fill material)		7		
1								Medium gray (N5), UNKNOWN (NOTE: Hardened tar like material)				
2							2.1-2.2			0		
							2.2-2.6	Grayish black (N2), CLAY, some silt, some refuse, moist, soft (NOTE: Refuse contains wood and plastic sheeting)		10		
							2.6-5	NO RECOVERY				
3												
4												
5	2	5-10				2.5	5-5.6	Dark yellowish brown (10YR 4/2), fine to medium SAND, some silt, some refuse, wet, loose (NOTE: Refuse contains wood and plastic material.)		0		
							5.6-5.7	Pale yellowish orange (10YR 8/6), fine to medium SAND, some unknown, dry, medium dense (NOTE: Unknown material contains a stiff polymer like substance)		3.4		
6							5.7-7.5	Dark yellowish brown (10YR 4/2), CLAY, some fine sand, some fine gravel, some organics (NOTE: Possible PHC like odor)		3.6		
7							7.5-10	NO RECOVERY				
8												
9												
10	3	10-15				3.9	10-12.1	Dark gray (N3), moderately sorted, fine to medium		2.3		

NOTES: Boring terminated at 40ft BGS
Peat layer observed from 31.5-32.4ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-41

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
								SAND, some silt, wet, loose				
11												
12							12.1-13.9	Dark gray (N3), CLAY, some fine sand, trace refuse (NOTE: Refuse contains glass and plastic. One small (<1 inch) lense of coarse sand at13.1 ft BGS. PID peak detection at 12.9 ft BGS. Strong PHC odor. Tar like substance in soil.)		43		
13												
14							13.9-15	NO RECOVERY				
15	4	15-20				2.5	15-17.5	SAA, CLAY, trace brick (NOTE: Moderate PHC odor. Small (<1 inch) diameter pieces of cemented yellow medium sand)		15		
16												
17												
							17.5-20	NO RECOVERY				
18												
19												
20	5	20-25				2.1	20-21.5	Dark gray (N3), fine to medium SAND, some silt, some refuse, wet, loose (NOTE: Refuse contains wood and brick, and medium gravel.)		3		
21												
							21.5-22.1	WOOD (NOTE: Processed wood board)		0		
22							22.1-25	NO RECOVERY				

NOTES: Boring terminated at 40ft BGS
Peat layer observed from 31.5-32.4ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-41

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
23												
24												
25	6	25-30				2.8	25-27.4	Brownish gray (5YR 4/1), poorly sorted, SILT, some fine to medium sand, little coarse sand, little coarse gravel, wet, stiff, laminated (NOTE: Slight organic like odor)		5		
26												
27							27.4-27.8	Dark gray (N3), CLAY, trace fine sand, high plasticity, moist, very stiff		2.5		
28							27.8-30	NO RECOVERY				
29												
30	7	30-35				3.4	30-31.5	SAA, CLAY (NOTE: moderate PHC odor)		2.5		
31												
32							31.5-32.4	Grayish brown (5YR 3/2), friable, PEAT, some clay, low plasticity, moist, stiff		0		
33							32.5-33.4	Olive gray (5Y 4/1), well sorted, fine SAND, some medium sand, wet, loose		0		
34							33.4-35	NO RECOVERY				
35	8	35-40				3	35-38	SAA, intermixed, fine SAND, some clay (NOTE:		0		

NOTES: Boring terminated at 40ft BGS
Peat layer observed from 31.5-32.4ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-41

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
35								Organic like odor)				
36												
37												
38							38-40	NO RECOVERY				
39												
40												

NOTES: Boring terminated at 40ft BGS
Peat layer observed from 31.5-32.4ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-42
PROJECT NUMBER: 388641.03.03.02
LOCATION: I-280 West cloverleaf area near exit ramp onto Harrison Ave.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 27.90 feet msl
TOTAL DEPTH: 35.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/7/2009 10:30:00 AM
FINISH: 5/7/2009 12:00:00 PM
NORTHING: 698209.76 feet
EASTING: 594782.98 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.5	0-1.6	Dark yellowish brown (10YR 4/2), fine to coarse SAND, some silt, little refuse, wet, loose (NOTE: Refuse includes wood and brick fragments)		0		
1							1.6-1.9	Dark gray (N3), fine to medium SAND, little silt, little fine gravel, trace brick, moist, loose		15		
2							1.9-2.3	CONCRETE		0		
							2.3-3.5	Brownish black (5YR 2/1), intermixed, fine to coarse SAND, some silt, some refuse, moist (NOTE: Refuse contains brick and concrete. Very slight PHC odor. High PID reading at 2.4 ft BGS.)		381		
3							3.5-5	NO RECOVERY				
4												
5	2	5-10				3	5-6.3	SILT, some fine sand, some refuse, wet, soft (NOTE: Refuse includes cinders and brick fragments)		0		
6							6.3-7.3	Brownish black (5YR 2/1), CLAY, some organics		0		
7							7.3-7.8	friable, PEAT, some clay, moist, soft		0		
8							7.8-8.0	Brownish black (5YR 2/1), CLAY, some organics		0		
							8.0-10	NO RECOVERY				
9												
10	3	10-15				3.5	10-12	Dark yellowish brown (10YR 4/2), SILT, some fine to medium sand, little coarse gravel, wet, loose (NOTE: Fill)		0		

NOTES: Boring terminated at 35ft BGS
Peat layer not observed. Peat layer may have been missed due to poor recovery in sample cores.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-42

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
11												
								Very pale orange (10YR 8/2), poorly sorted, fine to medium SAND, some fine gravel				
12							12-12.1			10		
							12.1-13.5	Dusky yellowish brown (10YR 2/2), CLAY, some silt, little fine gravel, little brick, moist, laminated		0		
13												
							13.5-15	NO RECOVERY				
14												
15	4	15-20				1.8	15-16.8	SAA, CLAY, some refuse (NOTE: Refuse contains metal fragments)		0		
16												
							16.8-20	NO RECOVERY				
17												
18												
19												
20	5	20-25				1.7	20-21.6	Dusky yellowish brown (10YR 2/2), SILT, some fine to medium sand, some fine gravel, some refuse, wet (NOTE: Refuse includes wood, glass, and metal fragments.)		28		
21												
								WOOD				
							21.6-21.7			0		
							21.7-25	NO RECOVERY				
22												
23												
24												

NOTES: Boring terminated at 35ft BGS
Peat layer not observed. Peat layer may have been missed due to poor recovery in sample cores.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-42

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
24												
25	6	25-30				1.8	25-26.3	Dark yellowish brown (10YR 4/2), medium SAND, some silt, some fine gravel, wet, loose		0		
26							26.3-26.8	Pale yellowish brown (10YR 6/2), mottled (, black), medium to coarse GRAVEL, some fine to medium sand, wet, loose		0		
27							26.8-30	NO RECOVERY				
28												
29												
30	7	30-35				3.1	30-33.1	Pale yellowish brown (10YR 6/2), moderately sorted, fine to medium SAND, little coarse sand, wet, loose, laminated		0		
31												
32												
33							33.1-35	NO RECOVERY				
34												
35												

NOTES: Boring terminated at 35ft BGS
Peat layer not observed. Peat layer may have been missed due to poor recovery in sample cores.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-43
PROJECT NUMBER: 388641.03.03.02
LOCATION: I-280 West cloverleaf area near exit ramp onto Harrison Ave.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 24.80 feet msl
TOTAL DEPTH: 20.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/7/2009 9:15:00 AM
FINISH: 5/7/2009 10:20:00 AM
NORTHING: 698227.39 feet
EASTING: 594888.22 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				2.5	0-0.5	Moderate brown (5YR 4/4), fine to medium SAND, some silt, some organics (NOTE: Organics include plant roots)		0		
							0.5-2.0	Moderate brown (5YR 4/4), FILL, some silt, some fine to medium sand, some refuse, moist (NOTE: Refuse includes brick and trace cinders.)		0		
1												
2							2.0-2.4	Black (N1), SILT, some fine to medium sand, little refuse, moist, medium dense (NOTE: Refuse includes plastic sheeting and brick. Slight organic like odor.)		20		
							2.4-5	NO RECOVERY				
3												
4												
5	2	5-10				1.5	5-6.5	Black (N1), SILT, some medium to coarse sand, little fine gravel, some refuse, wet (NOTE: Poor recovery due to refuse at bottom of sample core. Refuse includes wood, metal fragments, glass, brick. Slight organic like odor.)		0		
6												
							6.5-10	NO RECOVERY				
7												
8												
9												
10	3	10-15				2.6	10-10.3	Black (N1), SILT, some organics, wet (NOTE: Organic debris contains wood & rootlets)		0		
							10.3-10.7	Moderate reddish brown (10R 4/6), friable, PEAT, some clay, moist, soft		2		
							10.7-11.2			0		

NOTES: Boring terminated at 20ft BGS
Peat layer observed from 16.2-16.5ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-43

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** I-280 West cloverleaf area near exit ramp onto Harrison Ave.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
11							11.2-12.6	Black (N1), mottled (, pale brown), well sorted, SILT, some fine to medium sand, little fine gravel, some wood, moist		9		
12								Black (N1), SILT, some fine sand, little fine gravel, moist, stiff (NOTE: Grain size increasing with depth)				
							12.6-15	NO RECOVERY				
13												
14												
15	4	15-20				3.1	15-15.3	Black (N1), fine to medium SAND, some fine gravel, some organics, wet, loose (NOTE: Very slight sheen)		0		
							15.3-16.2	Grayish brown (5YR 3/2), CLAY, some silt, some fine gravel, soft		0		
16							16.2-16.5	Moderate yellowish brown (10 YR 5/4), friable, PEAT, some clay, moist, soft		0		
							16.5-17.8	Dark gray (N3), CLAY, some fine gravel, trace refuse, moist, stiff (NOTE: Refuse contains plastic and glass)		0		
17												
18							17.8-18.1	Medium gray (N5), mottled (, black), fine to medium SAND, wet, loose		0		
							18.1-20	NO RECOVERY				
19												
20												

NOTES: Boring terminated at 20ft BGS
Peat layer observed from 16.2-16.5ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-44
PROJECT NUMBER: 388641.03.03.02
LOCATION: Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 9.90 feet msl
TOTAL DEPTH: 20.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/6/2009 2:10:00 PM
FINISH: 5/6/2009 2:10:00 PM
NORTHING: 697926.11 feet
EASTING: 594642.22 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				2.5	0-1.7	Moderate brown (5YR 4/4), FILL, some fine to medium sand, some silt and refuse, dry, loose (NOTE: Refuse includes fine gravel, brick, and glass fragments.)		0		
1												
							1.7-2.1	CONCRETE		0		
2							2.1-2.5	Dark gray (N3), FILL and refuse, some silt, dry, loose (NOTE: Refuse includes wood and glass fragments. Unknown black resin like substance present in soil.)		0		
							2.5-5					
3								NO RECOVERY				
4												
5	2	5-10				2.7	5-5.5	Dark gray (N3), FILL, some medium sand, some silt, little refuse, wet, loose (NOTE: Refuse contains wood and glass fragments))		0		
							5.5-7.7	Greenish gray (5GY 6/1), mottled (, prominent, medium dark gray), well sorted, fine to medium SAND, little silt, wet, loose		23.8		
6												
7												
							7.7-10	NO RECOVERY				
8												
9												
10	3	10-15				5	10-13.6	SAA, fine to medium SAND, wet (NOTE: Sheen present in water from 10.8 - 12.8 ft BGS. Sheen does not appear to adhere to soil. High PID reading at 13.6 ft BGS.)		148		
11												
12												

NOTES: Boring terminated at 20ft BGS
Peat layer observed from 15-15.8ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-44

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13												
							13.6-14	Black (N1), CLAY, high plasticity, moist, stiff		48		
14							14.0-14.6	Brownish gray (5YR 4/1), CLAY, some fine to medium sand, slight plasticity, moist, stiff		7		
							14.6-15	Black (N1), CLAY, high plasticity, moist, stiff		0		
15	4	15-20				2.8	15-15.8	Grayish brown (5YR 3/2), friable, PEAT, moist		0		
							15.8-16.4	Moderate brown (5YR 4/4), well sorted, medium SAND, wet, loose		0		
16							16.4-17.8	Greenish gray (5GY 6/1), mottled (, prominent, medium dark gray), fine to medium SAND, little silt, wet, loose		0		
17												
18							17.8-20	NO RECOVERY				
19												
20												

NOTES: Boring terminated at 20ft BGS
Peat layer observed from 15-15.8ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-45
PROJECT NUMBER: 388641.03.03.02
LOCATION: Entrance ramp median to I-280 W from Harrison Ave., Kearny, NJ
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 14.60 feet msl
TOTAL DEPTH: 20.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/6/2009 1:20:00 PM
FINISH: 5/6/2009 2:00:00 PM
NORTHING: 697958.84 feet
EASTING: 594749.95 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.1	0-1.9	Moderate brown (5YR 4/4), FILL, some fine to coarse sand, some silt, some clay, medium dense		0		
1												
2							1.9-2.9	Dusky brown (5YR 2/2), SILT, some clay, some fine sand, trace organics, low plasticity, dry (NOTE: Trace refuse comprised of glass)		21.7		
3							2.9-3.1 3.1-5	Black (N1), clayey SILT and refuse, dry, stiff (NOTE: Refuse contains plastic sheeting and woven fabric.)		3.3		
4								NO RECOVERY				
5	2	5-10				2.4	5-6.4	Olive back (5Y 2/1), clayey SILT, little refuse, medium plasticity, moist, soft (NOTE: Refuse contains plastic, Styrofoam, and brick)		0		
6												
7							6.4-7.4	Dark gray (N3), silty CLAY, trace coarse sand, wet, soft		17		
8							7.4-10	NO RECOVERY				
9												
10	3	10-15				3.4	10-12.3	Dark gray (N3), silty CLAY, little fine to medium sand, some wood, trace brick, medium plasticity, wet		6.5		
11												
12							12.3-13.4	Light olive gray (5Y 5/2), well sorted, fine to		0		

NOTES: Boring terminated at 20ft BGS
Peat layer observed from 16.2-16.5ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-45

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Entrance ramp median to I-280 W from Harrison Ave., Kearny, NJ

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13								medium SAND, wet, loose				
							13.4-15	NO RECOVERY				
14												
15	4	15-20				1.5	15-15.8	SAA, fine to medium SAND				
							15.8-16.2	Dark gray (N3), CLAY, low plasticity, wet, soft (NOTE: PHC odor present)		7		
16							16.2-16.5	Dusky brown (5YR 2/2), friable, PEAT, moist, soft		0		
17												
18												
19												
20												

NOTES: Boring terminated at 20ft BGS
Peat layer observed from 16.2-16.5ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-46
PROJECT NUMBER: 388641.03.03.02
LOCATION: NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 23.30 feet msl
TOTAL DEPTH: 50.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: David Latiner
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/11/2009 12:50:00 PM
FINISH: 5/11/2009 1:00:00 PM
NORTHING: 697997.54 feet
EASTING: 594978.59 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				2.4	0-0.9	Dark yellowish brown (10YR 4/2), silty CLAY, some organics, moist, soft		0		
1							0.9-2.4	Dark gray (N3), silty CLAY, little fine gravel, little refuse, moist, stiff (NOTE: Refuse contains plastic wood fibers, and glass. Slight organic odor.)		0		
2						2.4	2.4-5	NO RECOVERY				
3												
4												
5	2	5-10				2.3	5-7.3	Dark gray (N3), silty CLAY, little refuse, moist, stiff (NOTE: Refuse contains wood and brick. Organic like odor.)		0		
6												
7							7.3-10	NO RECOVERY				
8												
9												
10	3	10-15				1.4	10-11.4	Dark gray (N3), clayey SILT, little medium gravel, some refuse, wet, loose (NOTE: Refuse contains brick, wood fibers, plastic.)		0		
11							11.4-15	NO RECOVERY				
12												
13												
14												
15	4	15-20				1.2	15-16.2	SAA, clayey SILT (NOTE: Organic like odor present.)		0		Poor recovery due to refuse.
16							16.2-20	NO RECOVERY				
17												
18												
19												
20	5	20-25				4.2	20-22.1	SAA, clayey SILT (NOTE: Slight sheen present with very small globules of NAPL. Slight oil like odor.)		0		
21												
22							22.1-24.2	Dusky yellowish brown (10YR 2/2), well sorted, fine SAND, some fine gravel, wet, loose		0		
23												
24												

NOTES: Boring terminated at 50ft BGS. Peat layer was not observed. Soil boring was extended to 50ft BGS to document deeper lithology.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-46

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
24							24.2-25	NO RECOVERY				
25	6	25-30				5	25-28.5	SLOUGH		0		
26												
27												
28							28.5-30	Dark yellowish brown (10YR 4/2), well sorted, fine SAND, little fine gravel, wet, loose (NOTE: oil like substance present at 30ft BGS. Oil like odor present,.)		0		
29												
30	7	30-35				3.6	30-32.1	SAA, fine SAND (NOTE: no oil sheen or odor)		0		
31												
32							32.1-33.6	Moderate brown (5YR 4/4), well sorted, medium to coarse SAND, some silt, little fine gravel, wet		0		
33												
34							33.6-35	NO RECOVERY				
35	8	35-40				5	35-39	SAA, medium to coarse SAND		0		
36												
37												
38												
39							39-40	Light gray (N7), well sorted, fine SAND, wet, loose		0		
40	9	40-45				2.8	40-42.4	Moderate brown (5YR 4/4), well sorted, medium to coarse SAND, some silt, little fine gravel, wet		0		
41												
42							42.4-42.8	Light gray (N7), well sorted, fine SAND and silt, wet, loose		0		
43							42.8-45	NO RECOVERY				
44												
45	10	45-50				5	45-50	Light gray (N7), well sorted, fine SAND, wet, loose		0		
46												
47												
48												
49												
50												

NOTES: Boring terminated at 50ft BGS. Peat layer was not observed. Soil boring was extended to 50ft BGS to document deeper lithology.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-47
PROJECT NUMBER: 388641.03.03.02
LOCATION: NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 27.50 feet msl
TOTAL DEPTH: 28.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: David Latiner
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/11/2009 9:30:00 AM
FINISH: 5/11/2009 10:50:00 AM
NORTHING: 698012.22 feet
EASTING: 595142.62 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.7	0-1.9	Dark yellowish brown (10YR 4/2), silty CLAY, little organics, trace, moist, stiff (NOTE: Refuse contains glass.)		0		
1												
2							1.9-3.7	Brownish black (5YR 2/1), SILT, some clay, little fine to medium sand, some refuse, moist (NOTE: Refuse contains brick, glass, wood, fabric, plastic. Slight organic odor.)		0		
3												
4							3.7-5	NO RECOVERY				
5	2	5-10				2	5-6	SAA, SILT (NOTE: slight organic like odor)		0		
								Very light grey (N8), fine GRAVEL and fine sand, dry (NOTE: material is cemented together (degrading cement?))				
6							6-6.1 6.1-7	Brownish black (5YR 2/1), SILT, little fine sand, little fine gravel, little refuse, moist, loose (NOTE: Refuse contains wood)		0 0		
7							7-10	NO RECOVERY				
8												
9												

NOTES: Boring terminated at 30ft BGS
Peat layer not observed in boring due to refusal at 28ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-47

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
10	3	10-15				1.2	10-11.2	Dark gray (N3), SILT, little fine sand, little refuse, trace fine gravel, wet, stiff (NOTE: Refuse comprised of wood. Small lense of coarse sand and fine gravel (very light gray) at 10.7ft BGS)		0		Poor recovery due to refuse.
11							11.2-15	NO RECOVERY				
12												
13												
14												
15	4	15-20				2	15-17	Dark gray (N3), SILT, some fine sand, some clay, some refuse, wet, soft (NOTE: organic like odor)		0		
16												
17							17-20	NO RECOVERY				
18												
19												
20	5	20-25				1.7	20-21.7	SAA, SILT (NOTE: moderately dense refuse		0		

NOTES: Boring terminated at 30ft BGS
Peat layer not observed in boring due to refusal at 28ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-47

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
								(wood).)				
21												
							21.7-25	NO RECOVERY				
22												
23												
24												
25	6	25-28				3	25-28	Grayish black (N2), SILT, some fine sand, some refuse, little clay (NOTE: Refuse contains wood. Slight organic like odor. Very small NAPL globules present in water. No sheen present.)				
26												
27												
28												

NOTES: Boring terminated at 30ft BGS
Peat layer not observed in boring due to refusal at 28ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-48
PROJECT NUMBER: 388641.03.03.02
LOCATION: Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 13.70 feet msl
TOTAL DEPTH: 30.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/6/2009 9:40:00 AM
FINISH: 5/6/2009 11:00:00 AM
NORTHING: 697748.06 feet
EASTING: 594626.86 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.6	0-1	Dusky yellowish brown (10YR 2/2), silty CLAY, little organics, low plasticity, moist		0		
1							1-2.6	Dusky yellowish brown (10YR 2/2), mottled (, dark yellowish orange), silty CLAY, some medium sand, little organics, moist, loose (NOTE: Organics consist of plant roots.)		0		
2												
							2.6-3.6	Grayish black (N2), CLAY, little silt, little medium gravel, trace refuse, medium plasticity, moist (NOTE: Organics consist of plant roots. Refuse consists of glass.)		0		
3												
							3.6-5	NO RECOVERY				
4												
5	2	5-10				2.4	5-5.8	SAA, CLAY (NOTE: no glass present)		0		
							5.8-6.4	Light gray (N7), clayey SILT, trace organics, low plasticity, wet, soft (NOTE: Organics consist of rootlets)		0		
6							6.4-7.0	moderately sorted, fine to medium SAND, little silt, trace fine gravel, trace organics, wet (NOTE: Organics consist of rootlets)		0		
7							7.0-7.4	Black (N1), CLAY, some refuse, medium plasticity, moist, stiff (NOTE: Refuse consists of glass, wood, and plastic)		8.7		
							7.4-10	NO RECOVERY				
8												

NOTES: Boring terminated at 30ft BGS
Peat layer likely observed from 20.5-21ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-48

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
9												
10	3	10-15				2	10-11.7	Dusky yellowish brown (10YR 2/2), poorly sorted, SILT, some medium sand, little clay, trace refuse, wet, soft (NOTE: Refuse contains wood and plastic. Sheen present in water (does not appear to adhere to soil).)		0		
11												
							11.7-12	Pale brown (5YR 5/2), well sorted, fine to medium SAND, wet, loose		0		
12							12-15	NO RECOVERY				
13												
14												
15	4	15-20				1	15-15.8	SAA, fine to medium SAND (NOTE: Slight sheen present)		1		Poor recovery
							15.8-16	Medium dark gray (N4), well sorted, fine SAND, little silt, little organics, wet (NOTE: PHC odor present)		8.9		
16							16-20	NO RECOVERY				
17												
18												

NOTES: Boring terminated at 30ft BGS
Peat layer likely observed from 20.5-21ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-48

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
19												
20	5	20-25				3	20-20.4	Black (N1), CLAY, high plasticity, moist, firm (NOTE: PHC odor present)		14.9		
							20.4-20.5			0		
							20.5-21	Light olive gray (5Y 6/1), well sorted, medium to coarse SAND, wet, loose		0		
21							21-23	Light olive gray (5Y 6/1), PEAT, wet (NOTE: Layer of decomposing wood believed to be part of the peat layer. Peat layer is not as distinct as in other borings.)		0		
22								Light olive gray (5Y 6/1), well sorted, medium to coarse SAND, wet, loose				
23							23-25	NO RECOVERY				
24												
25	6	25-30				2.8	25-26.9	SAA, fine to coarse SAND		0		
26												
27							26.9-27.8	Medium light gray (N6), very well sorted, fine SAND, little silt, wet, firm		0		
28							27.8-30	NO RECOVERY				
29												

NOTES: Boring terminated at 30ft BGS
Peat layer likely observed from 20.5-21ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-48

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
30												

NOTES: Boring terminated at 30ft BGS
Peat layer likely observed from 20.5-21ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-49
PROJECT NUMBER: 388641.03.03.02
LOCATION: Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 15.50 feet msl
TOTAL DEPTH: 25.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/6/2009 11:15:00 AM
FINISH: 5/6/2009 12:20:00 PM
NORTHING: 697849.28 feet
EASTING: 594707.57 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				2.8	0-1.8	Dusky yellowish brown (10YR 2/2), poorly sorted, silty CLAY, some fine to medium sand, low plasticity, moist, loose (NOTE: Refuse contains plastic)		0		
1												
2							1.8-2.8	Grayish black (N2), CLAY, little silt, little refuse, moist, soft		0		
3							2.8-5	NO RECOVERY				
4												
5	2	5-10				4	5-5.4	Grayish black (N2), SILT, some refuse, wet, loose (NOTE: Refuse comprised of plastic sheeting)		0		Poor recovery. Drillers encountered a hard subsurface object followed by a void.
							5.4-10	NO RECOVERY				
6												
7												
8												

NOTES: Boring terminated at 30ft BGS
Peat layer likely observed from 15-15.1ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-49

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
9												
10	3	10-15				0.9	10-10.9	SAA, SILT (NOTE: Mainly refuse.)				Poor recovery. After the completion of this boring, the drillers offset the location and drove rods to 14ft bgs 1 ft east of boring. Recovery was better and showed mainly refuse. No evidence of the peat layer.
11							10.9-15	NO RECOVERY				
12												
13												
14												
15	4	15-20				23	15-15.1 15.1-16.9	PEAT (NOTE: 1 inch thick layer of decomposing wood. This wood is possibly part of the peat layer. Peat layer is not obvious at this location.) Pale yellowish brown (10YR 6/2), mottled (, dark gray), well sorted, fine SAND, little coarse sand, wet, loose		0 0		
16												
17							16.9-20	NO RECOVERY				
18												

NOTES: Boring terminated at 30ft BGS
Peat layer likely observed from 15-15.1ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-49

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Entrance ramp median to I-280 W from Harrison Ave., Kearny NJ

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
19												
20	5	20-25				2.6	20-21.1	SAA, fine SAND		60		
21							21.1-21.6	Black (N1), CLAY, some organics (NOTE: Organic material includes wood and trace rootlets)		30		
22							21.6-22.6	Pale yellowish brown (10YR 6/2), mottled (, dark gray), well sorted, fine SAND, little coarse sand, wet, loose		25		
23							22.6-25	NO RECOVERY				
24												
25												

NOTES: Boring terminated at 30ft BGS
Peat layer likely observed from 15-15.1ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-50
PROJECT NUMBER: 388641.03.03.02
LOCATION: NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 21.70 feet msl
TOTAL DEPTH: 30.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: David Latiner
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/11/2009 12:50:00 PM
FINISH: 5/11/2009 2:00:00 PM
NORTHING: 697856.95 feet
EASTING: 594929.9 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				2.2	0-0.4	Dark yellowish brown (10YR 4/2), clayey SILT, some organics, moist, soft		0		
							0.4-1.8	Dark yellowish brown (10YR 4/2), SILT, some fine sand, some refuse, moist (NOTE: Refuse includes brick and cinders)		0		
1												
2							1.8-2.2	Dark gray (N3), SILT, some medium sand, some refuse, moist, soft (NOTE: Refuse contains plastic and glass.)		0		
							2.2-5	NO RECOVERY				
3												
4												
5	2	5-10				1.7	5-6.7	Dark gray (N3), silty CLAY, some refuse, little coarse sand, moist, soft (NOTE: Refuse contains brick, plastic, and wood. Organic like odor. Poor recovery due to refusal.)		0		
6												
7							6.7-10	NO RECOVERY				
8												
9												
10	3	10-15				4.5	10-14.5	Dark gray (N3), silty CLAY, some medium sand, some refuse, wet (NOTE: Refuse contains brick, wood, and plastic.)		0		
11												
12												
13												
14												
							14.5-15	NO RECOVERY				
15	4	15-20				3.2	15-18.2	Dark gray (N3), SILT, some fine to medium sand,		0		

NOTES: Boring terminated at 30ft BGS
Peat layer not observed. Peat layer may have been missed due to poor recovery in sample cores.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-50

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
16								some refuse, little clay, wet, soft (NOTE: Refuse includes concrete, wood, plant debris. Organic like odor.)				
17												
18							18.2-20	NO RECOVERY				
19												
20	5	20-25				2.4	20-20.8	Dark gray (N3), silty CLAY, some fine sand, some organics, wet, soft (NOTE: Organics consist of plant debris. Small globules of NAPL present at 20.8 ft BGS. Slight organic odor.)		0		
21							20.8-22.4	Dark yellowish brown (10YR 4/2), well sorted, fine SAND, little silt, little fine gravel, wet, loose (NOTE: Sheen present)		0		
22												
23							22.4-25	NO RECOVERY				
24												
25	6	25-30				3.7	25-25.8	fine SAND slough		0		
26							25.8-30	Dark yellowish brown (10YR 4/2), well sorted, fine SAND, little silt, wet, loose (NOTE: Sheen present in water and adheres to soil. PHC like odor. Very small amount of NAPL globules present.)		0		
27												
28												
29												
30												

NOTES: Boring terminated at 30ft BGS
Peat layer not observed. Peat layer may have been missed due to poor recovery in sample cores.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-51
PROJECT NUMBER: 388641.03.03.02
LOCATION: NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 31.60 feet msl
TOTAL DEPTH: 26.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: David Latiner
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/11/2009 11:00:00 AM
FINISH: 5/11/2009 1:00:00 PM
NORTHING: 697897.98 feet
EASTING: 595130.02 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				2.5	0-0.4	Dark yellowish brown (10YR 4/2), clayey SILT, some organics, moist (NOTE: Organics contain plant roots)		0		
							0.4-1.4			0		
1							1.4-2.5	Dark yellowish brown (10YR 4/2), SILT, some organics, little refuse, moist (NOTE: Refuse contains plastic)		0		
2							2.5-5	Dark gray (N3), SILT, little medium sand, trace medium gravel, some refuse, moist, soft (NOTE: Refuse contains wood and glass. Organic like odor present)				
3								NO RECOVERY				
4												
5	2	5-10				1.8	5-6.8	SAA, SILT		0		
6												
7							6.8-10	NO RECOVERY				
8												
9												
10	3	10-15				2.1	10-11.2	Dark gray (N3), medium SAND and silt, some refuse, wet, loose (NOTE: Refuse contains plastic and some plastic. Organic like odor present.)		0		
11							11.2-12.1	Dark gray (N3), CLAY, some silt, some refuse, wet, stiff (NOTE: Refuse contains wood. Organic like odor present.)		0		
12							12.1-15	NO RECOVERY				

NOTES: Boring terminated at 30ft BGS
Peat layer not observed in boring due to refusal at 26ftBGS.
Drillers moved boring 10ft to the north and reached refusal at 18ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-51

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13												
14												
15	4	15-20				5	15-20	Dark gray (N3), clayey SILT, some fine sand, some refuse, wet (NOTE: Refuse contains wood. Slight sheen, slight PHC like odor present.)		0		
16												
17												
18												
19												
20	5	20-25				5	20-25	SAA, Dark gray (N3), clayey SILT, wet (NOTE: Slight sheen and slight PHC like odor present.)		0		
21												
22												
23												
24												
25	6	25-26				1	25-26	SAA, clayey SILT, wet				Refusal reached at 26 ft BGS. Drillers offset the location 10 ft to the north and reached refusal at 18 ft BGS.
26												

NOTES: Boring terminated at 30ft BGS
Peat layer not observed in boring due to refusal at 26ftBGS.
Drillers moved boring 10ft to the north and reached refusal at 18ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-52
PROJECT NUMBER: 388641.03.03.02
LOCATION: Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 20.70 feet msl
TOTAL DEPTH: 25.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/27/2009 9:35:00 AM
FINISH: 5/27/2009 11:30:00 AM
NORTHING: 697371.76 feet
EASTING: 594130.37 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.2	0-0.7	Dusky brown (5YR 2/2), well sorted, SILT, some fine to medium sand, little organics, dry, loose		0		
1							0.7-1.2	Light brown (5YR 5/6), SILT, some medium gravel, little medium sand, trace, dry, loose (NOTE: Medium gravel is fractured shale.)		0		
							1.2-2.2	Dark yellowish brown (10YR 4/2), SILT, little clay, little coarse sand, little fine gravel, dry, soft (NOTE: Gravel is weathered shale. Trace refuse (plastic) and organic material.)		0		
2												
3							3.0-3.2	Brownish black (5YR 2/1), clayey SILT, some fine sand, some organics (NOTE: Organics consist of roots.)		0		
							3.2-5	NO RECOVERY				
4												
5	2	5-10				3.3	5-5.4	SLOUGH		0		
							5.4-6.5	Grayish black (N2), CLAY, some silt, little fine sand, some wood, moist, soft (NOTE: Decaying wood throughout interval. Trace medium gravel (weathered shale).)		4.5		
6												
							6.5-7.2	Medium dark gray (N4), CLAY, some silt, moist, stiff (NOTE: Slight PHC like odor.)		0		
7							7.2-8.2	Medium dark gray (N4), silty CLAY and peat, moist, stiff (NOTE: Slight PHC like odor.)		5.3		
8							8.2-10	NO RECOVERY				

NOTES: Boring terminated at 25ft BGS
Peat layer observed from 21.7-22.3ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-52

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
9												
10	3	10-15				4.7	10-12.4	Grayish black (N2), clayey SILT, little organics, trace cinders, low plasticity, wet, soft (NOTE: slight organic like odor)		0.1		
11												
12							12.4-13.5	Dusky yellowish brown (10YR 2/2), friable, PEAT, some clay, moist, stiff (NOTE: slight organic like odor.)		0.2		
13							13.5-14.4	Medium dark gray (N4), fine SAND and silt, some refuse, moist, soft (NOTE: Refuse contains plastic and fibers. Oil like odor present and organic like odor (similar to landfill material) present.)		7.7		
14							14.4-14.7	WOOD, some fine sand, some refuse (NOTE: Refuse contains plastic. Oil like odor present and organic like odor (similar to landfill material) present.)		7.5		
							14.7-15					
15	4	15-20				2.6	15-16.3	NO RECOVERY		1.9		
16								Grayish black (N2), SILT, some clay, trace fine sand, little organics, wet, loose (NOTE: Slight sheen on water. Oil like odor present and organic like odor (similar to landfill material) present.)				
							16.3-17.6	Grayish brown (5YR 3/2), well sorted, fine to medium SAND, some silt, wet, loose (NOTE: Gasoline like odor.)		85		
17												
18							17.6-20	NO RECOVERY				

NOTES: Boring terminated at 25ft BGS
Peat layer observed from 21.7-22.3ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-52

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
19												
20	5	20-25				2.3	20-21.7	Dusky yellowish brown (10YR 2/2), mottled (, medium dark gray), CLAY, little organics, moist, stiff (NOTE: Gasoline like odor)		4.3		
21												
							21.7-22.3	Dusky yellowish brown (10YR 2/2), friable, PEAT, moist, soft		0		
22							22-3.0	Dusky yellowish brown (10YR 2/2), CLAY, some silt, little organics, dry, soft (NOTE: Slight organic like odor.)		11		
							22.3-25	NO RECOVERY				
23												
24												
25												

NOTES: Boring terminated at 25ft BGS
Peat layer observed from 21.7-22.3ft BGS

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-53
PROJECT NUMBER: 388641.03.03.02
LOCATION: Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 21.40 feet msl
TOTAL DEPTH: 18.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/27/2009 11:45:00 AM
FINISH: 5/27/2009 1:00:00 PM
NORTHING: 697435.9 feet
EASTING: 594186.05 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.8	0-0.9	Pale brown (5YR 5/2), well sorted, SILT, some fine sand, little coarse sand, dry, soft		0		
1							0.9-1.7	Light brown (5YR 5/6), SILT, some medium gravel, some medium sand, little refuse, dry, loose (NOTE: Medium gravel is fractured shale. Refuse contains plastic sheeting.)		0		
2							1.7-2.7	Dusky brown (5YR 2/2), clayey SILT, some refuse, moist, soft (NOTE: Refuse contains brick and glass.)		0		
3							2.7-3.8	Grayish black (N2), mottled (, medium light gray), clayey SILT, some organics (NOTE: Organic and PHC like odor.)		8		
4							3.8-5	NO RECOVERY				
5	2	5-10				2.9	5-6.9	Grayish black (N2), mottled (, moderate brown), clayey SILT, some fine sand, little organics, moist, soft (NOTE: Organic and PHC like odor.)		4.5		
6								Light brown (5YR 5/4), well sorted, fine SAND, moist, loose (NOTE: Organic and PHC like odor.)				
7							6.9-7.1			0		
							7.1-7.9	Grayish black (N2), mottled (, dusky yellowish brown), CLAY, some peat (NOTE: Organic and PHC like odor.)		0		
8							7.9-10	NO RECOVERY				
9												
10	3	10-15				4.7	10-10.6	SAA, CLAY		4.5		
11							10.6-12.6	Dark gray (N3), CLAY, some peat, some refuse, moist, stiff (NOTE: Refuse contains glass, plant debris. Organic and PHC like odor. Oil like odor near bottom of interval.)		2		
12												

NOTES: Boring terminated at 18ft BGS
Peat layer not observed in soil boring.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-53

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13							12.6-14.7	Light brown (5YR 5/6), mottled (, black), fine to coarse SAND, some fine gravel, dry, loose (NOTE: Oil and organic like odor.)		22		
14												
15	4	15-18				3	14.7-15	NO RECOVERY				
							15-15.8	Dark gray (N3), clayey SILT, little organics, wet, loose (NOTE: Oil and organic like odor.)		2.5		
16							15.8-16.6	Medium dark gray (N4), SILT, some fine to medium sand, some clay, wet, loose (NOTE: Oil and organic like odor.)		0.9		
17							16.6-18	CONCRETE		0		
18												

NOTES: Boring terminated at 18ft BGS
Peat layer not observed in soil boring.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-54
PROJECT NUMBER: 388641.03.03.02
LOCATION: Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 21.50 feet msl
TOTAL DEPTH: 16.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/27/2009 1:30:00 PM
FINISH: 5/27/2009 2:20:00 PM
NORTHING: 697489.32 feet
EASTING: 594266.42 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.6	0-0.4	Grayish brown (5YR 3/2), SILT, some fine sand, little organics, dry, loose		0		
							0.4-3.3			0		
1								Moderate brown (5YR 4/4), mottled (, dark yellowish brown), SILT, some fine sand, little medium gravel, trace clay, low plasticity, moist, soft (NOTE: Medium gravel is fractured shale.)				
2												
3								Grayish black (N2), clayey SILT, some refuse (NOTE: Refuse contains plastic, tiles. Slight organic odor.)				
							3.3-3.6			0.4		
							3.6-5	NO RECOVERY				
4												
5	2	5-10				3.5	5-5.4	SLOUGH				
							5.4-6.4	Dark gray (N3), SILT, little fine sand, little wood, loose (NOTE: Strong organic and PHC odor.)		1.7		
6								Light brown (5YR 5/4), well sorted, fine to medium SAND, moist, loose				
							6.4-6.7			1.9		
							6.7-8.2			3.9		
7								Dark gray (N3), CLAY, some peat (NOTE: Organic like odor)				
8								Dark gray (N3), silty CLAY, moist, soft				
							8.2-8.5			2.6		
							8.5-10	NO RECOVERY				
9												
10	3	10-15				4.2	10-12.5	Dark gray (N3), silty CLAY, some refuse, high plasticity, moist, firm (NOTE: Refuse contains brick and glass fragments. Organic and PHC odor.)		6.7		
11												
12												
							12.5-13.5			36		

NOTES: Boring terminated at 16ft BGS
Peat layer not observed in soil boring.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-54

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13								Moderate reddish brown (10R 4/6), fine to medium SAND and silt, some fine gravel (NOTE: Oil like odor. Small seems of oil present in soil.)				
							13.5-14.2	CONCRETE				
14							14.2-15	NO RECOVERY				
15	4	15-16				1	15-16	CONCRETE				
16												

NOTES: Boring terminated at 16ft BGS
Peat layer not observed in soil boring.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-55
PROJECT NUMBER: 388641.03.03.02
LOCATION: Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 23.80 feet msl
TOTAL DEPTH: 25.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/27/2009 3:00:00 PM
FINISH: 5/27/2009 3:30:00 PM
NORTHING: 697575.92 feet
EASTING: 594309.19 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.2	0-0.5	Moderate brown (5YR 4/4), SILT and fine to medium sand, moist, loose		0		
							0.5-0.9			0		
1							0.9-2.2	Moderate reddish brown (10R 4/6), SILT and fine to medium sand, some medium gravel, moist (NOTE: Medium gravel is weathered shale fragments.)		0		
2							2.2-3.2	Moderate brown (5YR 3/4), SILT and fine to medium sand, moist, loose		80		
3							3.2-5	Dark gray (N3), SILT and fine to medium sand, some wood, moist (NOTE: Very strong solvent odor w/ bluish grey sand material in interval.)				
4								NO RECOVERY				
5	2	5-10				1.5	5-6.5	Dark gray (N3), silty CLAY, some refuse, medium plasticity, moist, soft (NOTE: Refuse contains wood and plastic. Organic like odor.)		15		
6							6.5-10	NO RECOVERY				
7												
8												
9												
10	3	10-15				2.4	10-10.9	Grayish black (N2), silty CLAY, some fine sand, some refuse, medium plasticity, moist, soft (NOTE: Refuse contains plastic.)		10		
11							10.9-11.1			0		
							11.1-12.4	Grayish orange (10YR 7/4), fine to medium SAND and clay, wet, loose		1.8		
12							12.4-15	Grayish black (N2), silty CLAY, some fine sand, some refuse, medium plasticity, moist, soft (NOTE: Refuse contains plastic. Organic like odor.)				

NOTES: Boring terminated at 25ft BGS
Peat layer not observed in soil boring.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-55

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Southern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13								NO RECOVERY				
14												
15	4	15-20				3.6	15-16.6	Dark gray (N3), clayey SILT, little fine to medium sand, little organics, wet (NOTE: Organic like odor.)		4.2		
16												
17							16.6-17.6	Dark gray (N3), CLAY, some fine sand, some organics, some refuse (NOTE: Organic like odor.)		20		
18							17.6-18.6	Grayish orange (10YR 7/4), well sorted, fine to medium SAND, moist, loose (NOTE: Few shell fragments present throughout interval. Strong oil like odor.)		54.4		
19							18.6-20	NO RECOVERY				
20	5	20-25				2	20-22	Dark gray (N3), CLAY, some refuse, moist, stiff (NOTE: Refuse contains brick, plant debris. Small interval of oil seams at 21.5 - 21.6 ft bgs.)		24		
21												
22							22-25	NO RECOVERY				
23												
24												
25												

NOTES: Boring terminated at 25ft BGS
Peat layer not observed in soil boring.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SB-56
PROJECT NUMBER: 388641.03.03.02
LOCATION: Northern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 24.50 feet msl
TOTAL DEPTH: 25.00 feet bgs
DRILLING CONTRACTOR: SGS Env.
FOREMAN: Jeff Rausa
DRILLING METHOD: Direct Push
DRILLING EQUIPMENT: Geo Probe 6610DT w/ DPT
SAMPLING METHOD: Continuous Sample Tube
CH2M GEOLOGIST: David Reamer
START: 5/28/2009 9:30:00 AM
FINISH: 5/28/2009 11:15:00 AM
NORTHING: 697888.55 feet
EASTING: 594351.74 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0	1	0-5				3.1	0-1.2	Dark yellowish brown (10YR 4/2), SILT, some clay, some fine gravel, some medium sand, non-plastic, moist, soft (NOTE: Few cinders)		0		
1							1.2-1.3	BRICK				
							1.3-2.6	Dark yellowish brown (10YR 4/2), CLAY, some silt, some fine to coarse sand, some fine gravel, low plasticity, moist, stiff		0		
2							2.6-3.1	Dark gray (N3), CLAY, some refuse, medium plasticity, moist, soft (NOTE: Refuse contains wood, brick, paper, plastic. Organic like odor present.)		7.9		
3							3.1-5	NO RECOVERY				
4												
5	2	5-10				2.4	5-5.5	SLOUGH				
							5.5-7.4	SAA, Dark gray (N3), CLAY, little organics (NOTE: Organic like odor from 5.5 - 7.0 ft BGS. Oil like odor and sheen present at 7.4 ft BGS (area of highest PID reading).)		94.9		
6												
7							7.4-10	NO RECOVERY				
8												
9												
10	3	10-15				1.9	10-11.9	Dark gray (N3), mottled (, dusky yellowish brown), silty CLAY, some fine sand, thinly laminated (NOTE: Organic like odor from 10 - 10.9 ft BGS. Strong oil like odor with small seams of oil present from 10.9 - 11.9 ft BGS.)		41		
11												
12							11.9-15	NO RECOVERY				

NOTES: Boring terminated at 25ft BGS
Peat layer not observed in soil boring.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA **BORING NUMBER:** SB-56

PROJECT NUMBER: 388641.03.03.02 **LOCATION:** Northern onsite NJDOT berm (1401 Harrison Ave., Kearny, NJ)

PROJECT NAME: Diamond Head

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
13												
14												
15	4	15-20				2.2	15-17.2	Dark gray (N3), silty CLAY and refuse, some fine sand, medium plasticity, wet, soft (NOTE: Refuse contains plastic, wood and brick. Strong oil like odor throughout. Small areas of oil present from 15 - 16 ft BGS. Possible solvent (sweet) like odor.)		120		
16												
17							17.2-20	NO RECOVERY				
18												
19												
20	5	20-25				3.4	20-21.5	Dark gray (N3), SILT and fine sand, some clay, low plasticity, wet, soft (NOTE: Oil like odor throughout interval. Oil globules throughout water.)		35		
21							21.5-22.1	Pale yellowish brown (10YR 6/2), well sorted, fine SAND, some silt, wet, loose (NOTE: Oil like odor throughout interval. Sand looks similar to fill observed in NJDOT boring MW-26S)		25		
22						3.4	22.1-23.4	Dark gray (N3), CLAY, high plasticity, moist, stiff		15		
23							23.4-25	NO RECOVERY				
24												
25												

NOTES: Boring terminated at 25ft BGS
Peat layer not observed in soil boring.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SD-26-3
PROJECT NUMBER: 388641
LOCATION: NJDOT drainage swale, south edge of site
PROJECT NAME: Diamond Head
SURFACE ELEVATION: -0.26 feet msl
TOTAL DEPTH: 0.50 feet bgs
DRILLING CONTRACTOR:
FOREMAN:
DRILLING METHOD:
DRILLING EQUIPMENT:
SAMPLING METHOD: Spoon
CH2M GEOLOGIST: Michael Murphy
START: 5/15/2009 11:30:00 AM
FINISH: 5/15/2009 11:45:00 AM
NORTHING: 697055.9 feet
EASTING: 593807.21 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0								Moderate brown (5YR 4/4), mottled (, prominent, black), SILT, some organics, trace fine to medium sand, wet, soft (NOTE: Organic odor. Slight sheen present in swale water and does not appear to adhere to the sediment (metals sheen?). Organic sediment.)				VOC sample originally collected was delivered to the lab out of holding time due to FedEx delays. VOC sample recollected on 5/27/2009

NOTES: Hand collected surface sediment sample from 0-0.5 ft bgs.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SD-30-3
PROJECT NUMBER: 388641
LOCATION: NJDOT drainage swale, southwest corner of site
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 0.73 feet msl
TOTAL DEPTH: 0.50 feet bgs
DRILLING CONTRACTOR:
FOREMAN:
DRILLING METHOD:
DRILLING EQUIPMENT:
SAMPLING METHOD: Spoon
CH2M GEOLOGIST: Michael Murphy
START: 5/15/2009 11:50:00 AM
FINISH: 5/15/2009 12:05:00 PM
NORTHING: 696908.18 feet
EASTING: 593571.68 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0								Moderate brown (5YR 4/4), mottled (, prominent, black), SILT, some organics, trace fine to medium sand, wet, soft (NOTE: Organic odor. Sheen present in swale water and does not appear to adhere to the sediment (metals sheen?). Organic sediment.)				Water is nearly stagnant, moving very slowly to the west. VOC sample originally collected was delivered to the lab out of holding time due to FedEx delays. VOC sample recollected on 5/27/2009

NOTES: Hand collected surface sediment sample from 0-0.5 ft bgs.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SD-33-3
PROJECT NUMBER: 388641
LOCATION: NJDOT drainage swale southeast of the Campbell Foundry
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 1.19 feet msl
TOTAL DEPTH: 0.50 feet bgs
DRILLING CONTRACTOR:
FOREMAN:
DRILLING METHOD:
DRILLING EQUIPMENT:
SAMPLING METHOD: Spoon
CH2M GEOLOGIST: Michael Murphy
START: 5/15/2009 11:40:00 AM
FINISH: 5/15/2009 11:55:00 AM
NORTHING: 696870.01 feet
EASTING: 593495.2 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0								Brownish black (5YR 2/1), SILT, some fine to medium sand, low plasticity, wet, soft (NOTE: Organic odor. Sheen present in swale water and surface of sediments. Organic sediment.)				VOC sample originally collected was delivered to the lab out of holding time due to FedEx delays. VOC sample recollected on 5/27/2009

NOTES: Hand collected surface sediment sample from 0-0.5 ft bgs.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SD-34-3
PROJECT NUMBER: 388641
LOCATION: Franks Creek, South of Wal-Mart Parking Lot (SW of Site)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 1.71 feet msl
TOTAL DEPTH: 0.50 feet bgs
DRILLING CONTRACTOR:
FOREMAN:
DRILLING METHOD:
DRILLING EQUIPMENT:
SAMPLING METHOD: Spoon
CH2M GEOLOGIST: Michael Murphy
START: 5/15/2009 10:25:00 AM
FINISH: 5/15/2009 10:40:00 AM
NORTHING: 696622.86 feet
EASTING: 592910.87 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0								Light brownish gray (5YR 6/1), SILT, some medium sand, some fine gravel, low plasticity, wet, soft (NOTE: No odor. Sheen present in swale water and does not appear to adhere to the sediment (metals sheen?). Organic sediment.)				VOC sample originally collected was delivered to the lab out of holding time due to FedEx delays. VOC sample recollected on 5/27/2009

NOTES: Hand collected surface sediment sample

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SD-35-3
PROJECT NUMBER: 388641
LOCATION: NJDOT drainage swale, southeast edge of site
PROJECT NAME: Diamond Head
SURFACE ELEVATION: NM feet msl
TOTAL DEPTH: 0.50 feet bgs
DRILLING CONTRACTOR:
FOREMAN:
DRILLING METHOD:
DRILLING EQUIPMENT:
SAMPLING METHOD: Spoon
CH2M GEOLOGIST: Michael Murphy
START: 5/15/2009 1:05:00 PM
FINISH: 5/15/2009 1:20:00 PM
NORTHING: 697334.19 feet
EASTING: 594153.28 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0								Black (N1), SILT, some organics, non-plastic, wet, soft (NOTE: Oil present throughout sampling area. Oil present on top of water in swale and on the banks of the swale. Strong oil odor. Oil throughout water and sediments.)				Oil appears to be draining from the bottom of the NJDEP soil berm to the south of the site (northern bank of the swale). Oil impacted area is ~230FT long.

NOTES: Hand collected surface sediment sample from 0-0.5 ft bgs.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SD-37-3
PROJECT NUMBER:
LOCATION: NJDOT drainage swale south of the Campbell Foundry
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 0.35 feet msl
TOTAL DEPTH: 0.50 feet bgs
DRILLING CONTRACTOR:
FOREMAN:
DRILLING METHOD:
DRILLING EQUIPMENT:
SAMPLING METHOD: Spoon
CH2M GEOLOGIST: Michael Murphy
START: 5/15/2009 11:05:00 AM
FINISH: 5/15/2009 11:20:00 AM
NORTHING: 696792.42 feet
EASTING: 593365.46 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0								Brownish black (5YR 2/1), SILT, some fine to medium sand, low plasticity, wet, soft (NOTE: No odor. Sheen present in swale water and does not appear to adhere to the sediment (metals sheen?). Organic sediment.)				VOC sample originally collected was delivered to the lab out of holding time due to FedEx delays. VOC sample recollected on 5/27/2009

NOTES: Hand collected surface sediment sample from 0-0.5 ft bgs.

msl = mean sea level
bgs = below ground surface

CH2MHILL

SOIL BORING LOG

CLIENT: USEPA
BORING NUMBER: SD-38-3
PROJECT NUMBER: 388641
LOCATION: Franks Creek, South of Wal-Mart Parking Lot (SW of Site)
PROJECT NAME: Diamond Head
SURFACE ELEVATION: -0.23 feet msl
TOTAL DEPTH: 0.50 feet bgs
DRILLING CONTRACTOR:
FOREMAN:
DRILLING METHOD:
DRILLING EQUIPMENT:
SAMPLING METHOD: Spoon
CH2M GEOLOGIST: Michael Murphy
START: 5/15/2009 9:45:00 AM
FINISH: 5/15/2009 10:00:00 AM
NORTHING: 696781.78 feet
EASTING: 593005.63 feet

DEPTH BELOW GRADE (FT)	SAMPLE NUMBER	SAMPLE INTERVAL (FT)	SAMPLE TYPE	BLOW COUNTS 6"-6"-6"-6"	N VALUE	SAMPLE RECOVERY (FT)	SAMPLE DESCRIPTION INTERVAL (FT)	SOIL DESCRIPTION [COLOR, MOTTLING, SOIL DESCRIPTION, PREDOMINANT GRAIN SIZE, SUBORDINATE GRAIN SIZE WITH DESCRIPTORS, SORTING, GRAIN SHAPE, PLASTICITY, MINERALOGY), WATER STATE, DENSITY/COHESIVENESS, LAYERING]	USCS GROUP SYMBOL	PID/FID READING (PPM)	OTHER TESTING	COMMENTS
0								Light brownish gray (5YR 6/1), SILT, some medium sand, some fine gravel, low plasticity, wet, soft (NOTE: No odor. Sheen present in swale water and does not appear to adhere to the sediment (metals sheen?). Organic sediment.)				

NOTES: Hand collected surface sediment sample from 0-0.5 ft bgs.

msl = mean sea level
bgs = below ground surface

Well Construction Logs

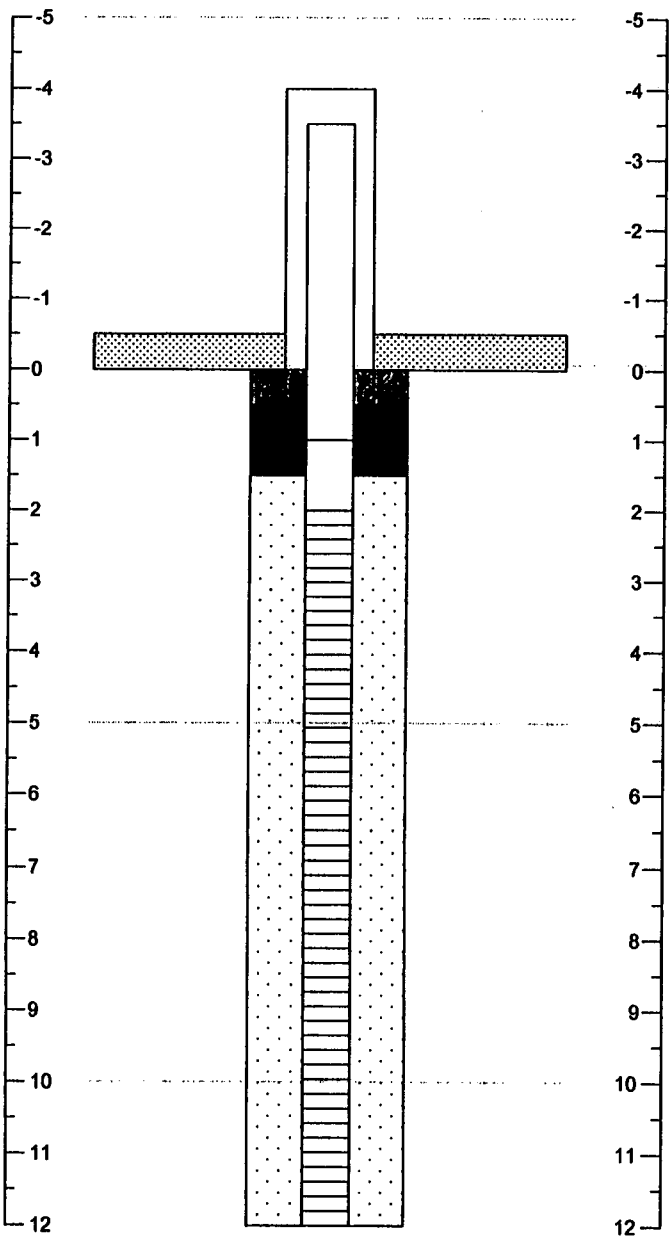
CH2MHILL

WELL CONSTRUCTION LOG

CLIENT: USEPA
PROJECT NUMBER: 3888641.03.02.01
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 10.14 feet msl
DRILLING CONTRACTOR: SGS Env.
DRILLING METHOD: Hollow Stem Auger
START: 5/12/2009 8:30:00 AM **FINISH:** 5/12/2009 9:30:00 AM

WELL NUMBER / NJDEP PERMIT: MW-18S / P200905254
LOCATION: NJDOT Median bound between I-280 E entrance and exit ramps
FINISHED WELL DEPTH: 15.45□ft bgs
INNER CASING ELEVATION(S): 9.24□ft msl
FOREMAN: William Petley **CH2M GEOLOGIST:** David Reamer
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
NORTHING: 698332.36 feet **EASTING:** 594381.44 feet

DEPTH BELOW GRADE (FT)	WELL CONSTRUCTION DIAGRAM	DESCRIPTION



4 ft ags - 1 ft bgs: PROTECTIVE CASING - Stick up, 4-in diameter steel protective casing

0.5 ft ags - 0 ft bgs: CONCRETE PAD - 2-ft X 2-ft concrete pad for well protective casing

0 - 0.5 ft bgs: GROUTED ANNULUS - Portland cement and bentonite slurry

0.5 - 1.5 ft bgs: ANNULAR SEAL - Filpro #00 Quartz Sand

3.5 ft ags - 2 ft bgs: CASING - 2-in Schedule 40 PVC, riser

1.5 - 12 ft bgs: FILTER PACK - Filpro #1 Quartz Sand

2 - 12 ft bgs: SCREEN - 2-in Schedule 40 PVC, 20-slot machine slotted screen

NOTES: Location: NJDOT median bound, between I-280E entrance and exit ramps and Harrison Ave.

msl = mean sea level
bgs = below ground surface
ags = above ground surface

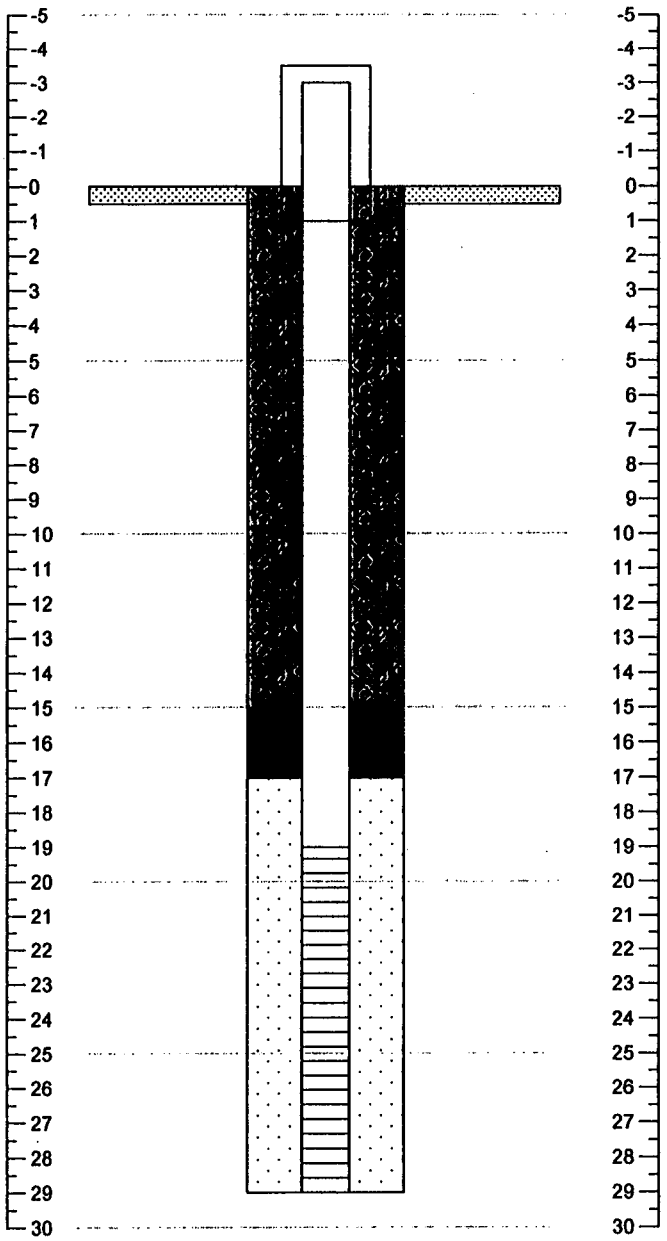
CH2MHILL

WELL CONSTRUCTION LOG

CLIENT: USEPA
PROJECT NUMBER: Diamond Head
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 29.82 feet msl
DRILLING CONTRACTOR: SGS Env.
DRILLING METHOD: Hollow Stem Auger
START: 5/13/2009 9:00:00 AM **FINISH:** 5/13/2009 1:20:00 PM

WELL NUMBER / NJDEP PERMIT: MW-19S / P200905257
LOCATION: I-280 West cloverleaf area near exit ramp onto Harrison Ave.
FINISHED WELL DEPTH: 32.4□ft bgs
INNER CASING ELEVATION(S): 29.59□ft msl
FOREMAN: William Petley **CH2M GEOLOGIST:** David Reamer
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
NORTHING: 698354.01 feet **EASTING:** 594937.92 feet

DEPTH BELOW GRADE (FT)	WELL CONSTRUCTION DIAGRAM	DESCRIPTION



3.5 ft ags - 1 ft bgs: PROTECTIVE CASING - Stick up, 4-in diameter steel protective casing

0 - 0.5 ft bgs: CONCRETE PAD - 2-ft X 2-ft concrete pad for well protective casing

0 - 15 ft bgs: GROUTED ANNULUS - Portland cement and bentonite slurry

15 - 17 ft bgs: ANNULAR SEAL - Filpro #00 Quartz Sand

17 - 29 ft bgs: FILTER PACK - Filpro #1 Quartz Sand

19 - 29 ft bgs: SCREEN - 2-in Schedule 40 PVC, 20-slot machine slotted screen

NOTES: Location: I-280 West cloverleaf area near I-280 exit ramp onto Harrison Ave.

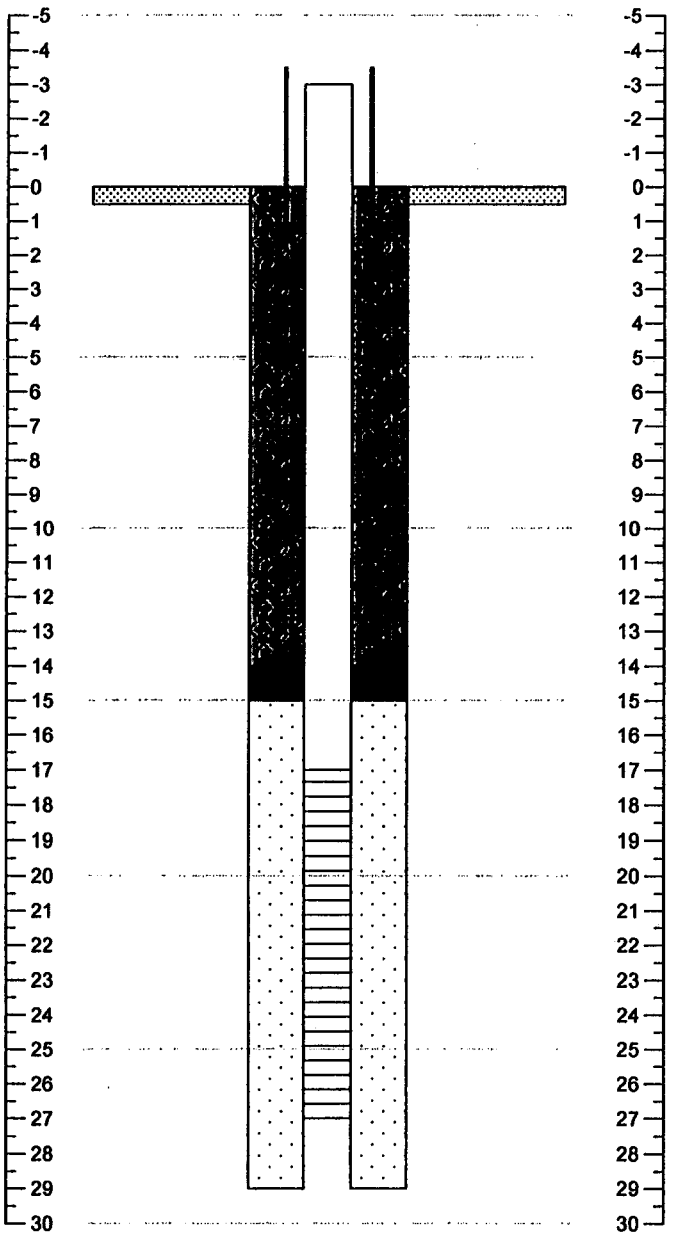
msl = mean sea level
bgs = below ground surface
ags = above ground surface

CH2MHILL

WELL CONSTRUCTION LOG

CLIENT: USEPA
PROJECT NUMBER: Diamond Head
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 27.52 feet msl
DRILLING CONTRACTOR: SGS Env.
DRILLING METHOD: Hollow Stem Auger
START: 5/14/2009 8:15:00 AM **FINISH:** 5/14/2009 9:30:00 AM
WELL NUMBER / NJDEP PERMIT: MW-20S / P200905255
LOCATION: NJDOT property located to the east of I-280 E, south of ramp
FINISHED WELL DEPTH: 30.4□ft bgs
INNER CASING ELEVATION(S): 27.16□ft msl
FOREMAN: William Petley **CH2M GEOLOGIST:** David Reamer
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
NORTHING: 698117.41 feet **EASTING:** 595048.11 feet

DEPTH BELOW GRADE (FT)	WELL CONSTRUCTION DIAGRAM	DESCRIPTION



3.5 ft ags - 1 ft bgs: PROTECTIVE CASING - Stick up, 4-in diameter steel protective casing

0 - 0.5 ft bgs: CONCRETE PAD - 2-ft X 2-ft concrete pad for well protective casing

0 - 14 ft bgs: GROUTED ANNULUS - Portland cement and bentonite slurry

3 ft ags - 17 ft bgs: CASING - 2-in Schedule 40 PVC, riser

14 - 15 ft bgs: ANNULAR SEAL - Filpro #00 Quartz Sand

15 - 29 ft bgs: FILTER PACK - Filpro #1 Quartz Sand

17 - 27 ft bgs: SCREEN - 2-in Schedule 40 PVC, 20-slot machine slotted screen

NOTES: Location: NJDOT property located to the east of I-280 E, south of I-280 E entrance ramp.

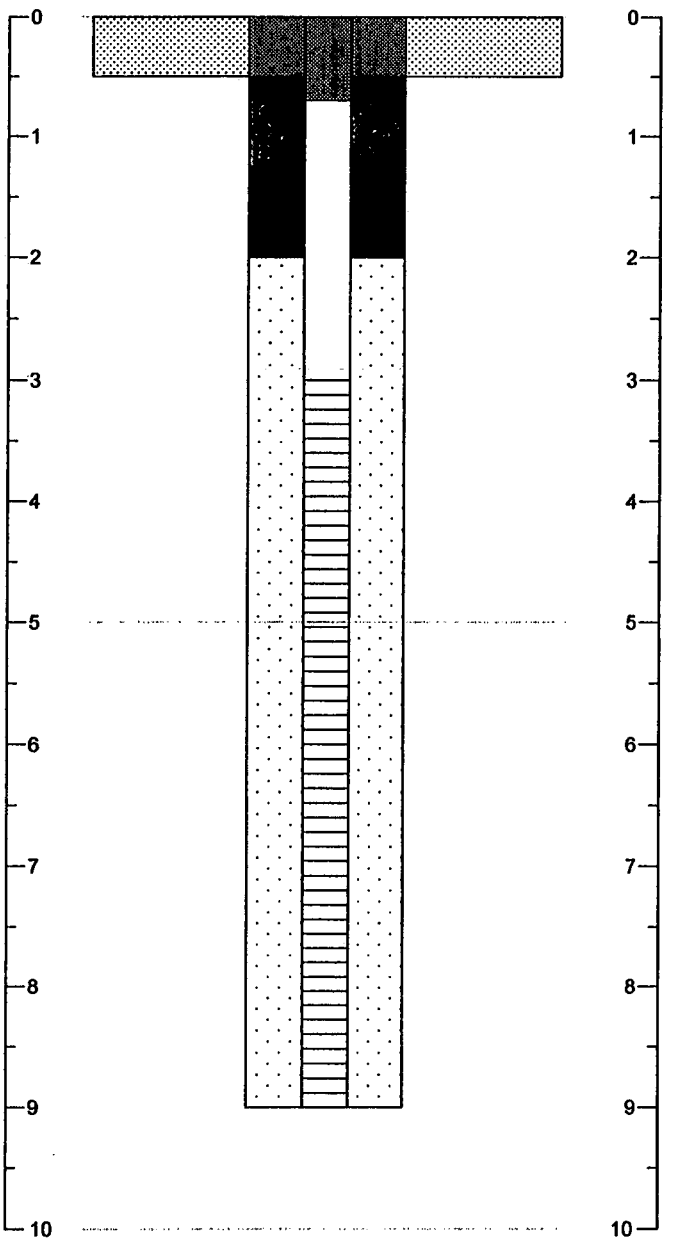
msl = mean sea level
bgs = below ground surface
ags = above ground surface

CH2MHILL

WELL CONSTRUCTION LOG

CLIENT: USEPA
PROJECT NUMBER: Diamond Head
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 6.87 feet msl
DRILLING CONTRACTOR: SGS Env.
DRILLING METHOD: Hollow Stem Auger
START: 5/15/2009 10:45:00 AM **FINISH:** 5/15/2009 11:30:00 AM
WELL NUMBER / NJDEP PERMIT: MW-21S / P200905261
LOCATION: J. Supor & Son Trucking & Rigging Co., (433 Bergen Ave)
FINISHED WELL DEPTH: 9.21 ft bgs
INNER CASING ELEVATION(S): 6.41 ft msl
FOREMAN: William Petley **CH2M GEOLOGIST:** David Reamer
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
NORTHING: 698519.36 feet **EASTING:** 594116.8 feet

DEPTH BELOW GRADE (FT)	WELL CONSTRUCTION DIAGRAM	DESCRIPTION



0 - 0.7 ft bgs: LOCKABLE COVER - Flush mount, 8-in diameter steel protective cover.

0 - 0.5 ft bgs: CONCRETE PAD - 2-ft X 2-ft concrete pad for well protective casing

0.5 - 1.25 ft bgs: GROUTED ANNULUS - Portland cement and bentonite slurry

1.25 - 2 ft bgs: ANNULAR SEAL - Filpro #00 Quartz Sand

0 - 3 ft bgs: CASING - 2-in Schedule 40 PVC, riser

2 - 3 ft bgs: FILTER PACK - Filpro #1 Quartz Sand

3 - 9 ft bgs: SCREEN - 2-in Schedule 40 PVC, 20-slot machine slotted screen

NOTES: Location: J. Supor & Son Trucking & Rigging Co., (433 Bergen Ave., Kearny NJ)

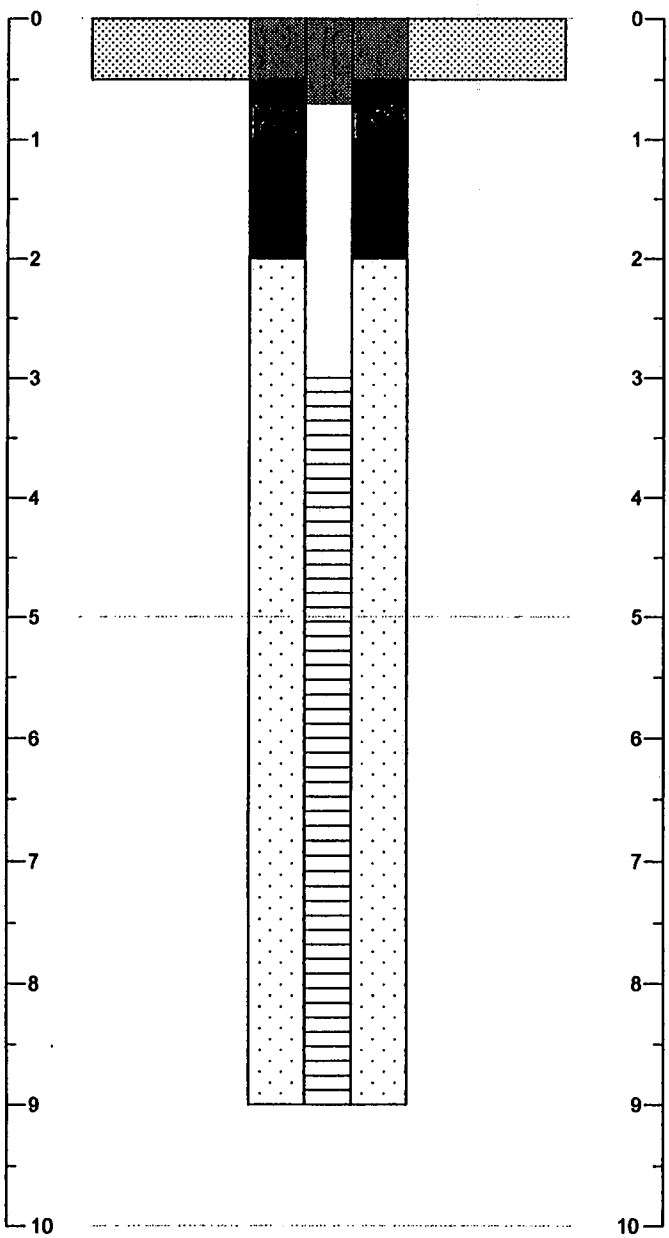
msl = mean sea level
bgs = below ground surface
ags = above ground surface

CH2MHILL

WELL CONSTRUCTION LOG

CLIENT: USEPA
PROJECT NUMBER: Diamond Head
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 7.40 feet msl
DRILLING CONTRACTOR: SGS Env.
DRILLING METHOD: Hollow Stem Auger
START: 5/18/2009 10:00:00 AM **FINISH:** 5/18/2009 10:30:00 AM
WELL NUMBER / NJDEP PERMIT: MW-23S / P200905259
LOCATION: Campbell Distribution Foundry (1235 Harrison Ave)
FINISHED WELL DEPTH: 8.54□ft bgs
INNER CASING ELEVATION(S): 6.64□ft msl
FOREMAN: William Petley **CH2M GEOLOGIST:** David Reamer
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
NORTHING: 697471.19 feet **EASTING:** 593385.36 feet

DEPTH BELOW GRADE (FT)	WELL CONSTRUCTION DIAGRAM	DESCRIPTION



0 - 0.7 ft bgs: LOCKABLE COVER - Flush mount, 8-in diameter steel protective cover.

0 - 0.5 ft bgs: CONCRETE PAD - 2-ft X 2-ft concrete pad for well protective casing

0.5 - 1 ft bgs: GROUTED ANNULUS - Portland cement and bentonite slurry

1 - 2 ft bgs: ANNULAR SEAL - Filpro #00 Quartz Sand

0 - 3 ft bgs: CASING - 2-in Schedule 40 PVC, riser

2 - 3 ft bgs: FILTER PACK - Filpro #1 Quartz Sand

3 - 9 ft bgs: SCREEN - 2-in Schedule 40 PVC, 20-slot machine slotted screen

NOTES: Location: Campbell Distribution Foundry - northern boring (1235 Harrison Ave., Kearny NJ)

msl = mean sea level
bgs = below ground surface
ags = above ground surface

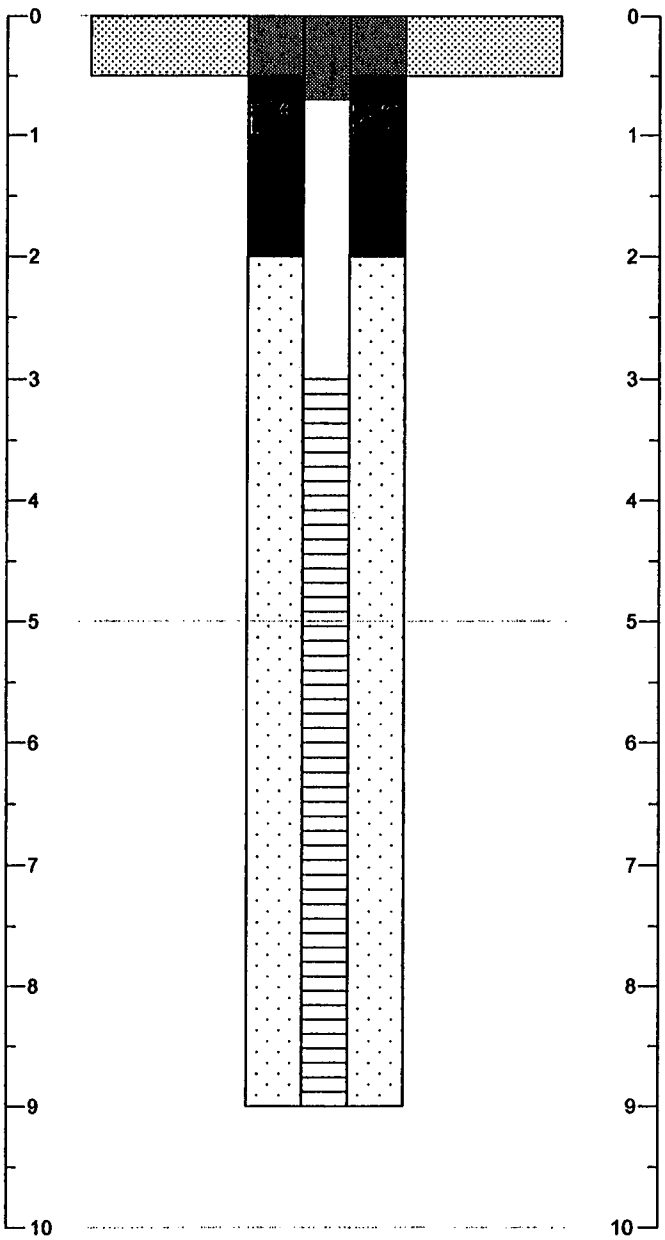
CH2MHILL

WELL CONSTRUCTION LOG

CLIENT: USEPA
PROJECT NUMBER: Diamond Head
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 6.19 feet msl
DRILLING CONTRACTOR: SGS Env.
DRILLING METHOD: Hollow Stem Auger
START: 5/18/2009 11:00:00 AM **FINISH:** 5/18/2009 12:00:00 PM

WELL NUMBER / NJDEP PERMIT: MW-24S / P200905260
LOCATION: Campbell Distribution Foundry (1235 Harrison Ave)
FINISHED WELL DEPTH: 8.65□ft bgs
INNER CASING ELEVATION(S): 5.62□ft msl
FOREMAN: William Petley **CH2M GEOLOGIST:** David Reamer
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
NORTHING: 697011.73 feet **EASTING:** 593393.04 feet

DEPTH BELOW GRADE (FT)	WELL CONSTRUCTION DIAGRAM	DESCRIPTION



0 - 0.7 ft bgs: LOCKABLE COVER - Flush mount, 8-in diameter steel protective cover.

0 - 0.5 ft bgs: CONCRETE PAD - 2-ft X 2-ft concrete pad for well protective casing

0.5 - 1 ft bgs: GROUTED ANNULUS - Portland cement and bentonite slurry

1 - 2 ft bgs: ANNULAR SEAL - Filpro #00 Quartz Sand

0 - 3 ft bgs: CASING - 2-in Schedule 40 PVC, riser

2 - 3 ft bgs: FILTER PACK - Filpro #1 Quartz Sand

3 - 9 ft bgs: SCREEN - 2-in Schedule 40 PVC, 20-slot machine slotted screen

NOTES: Location: Campbell Distribution Foundry - northern boring (1235 Harrison Ave., Kearny NJ)

msl = mean sea level
bgs = below ground surface
ags = above ground surface

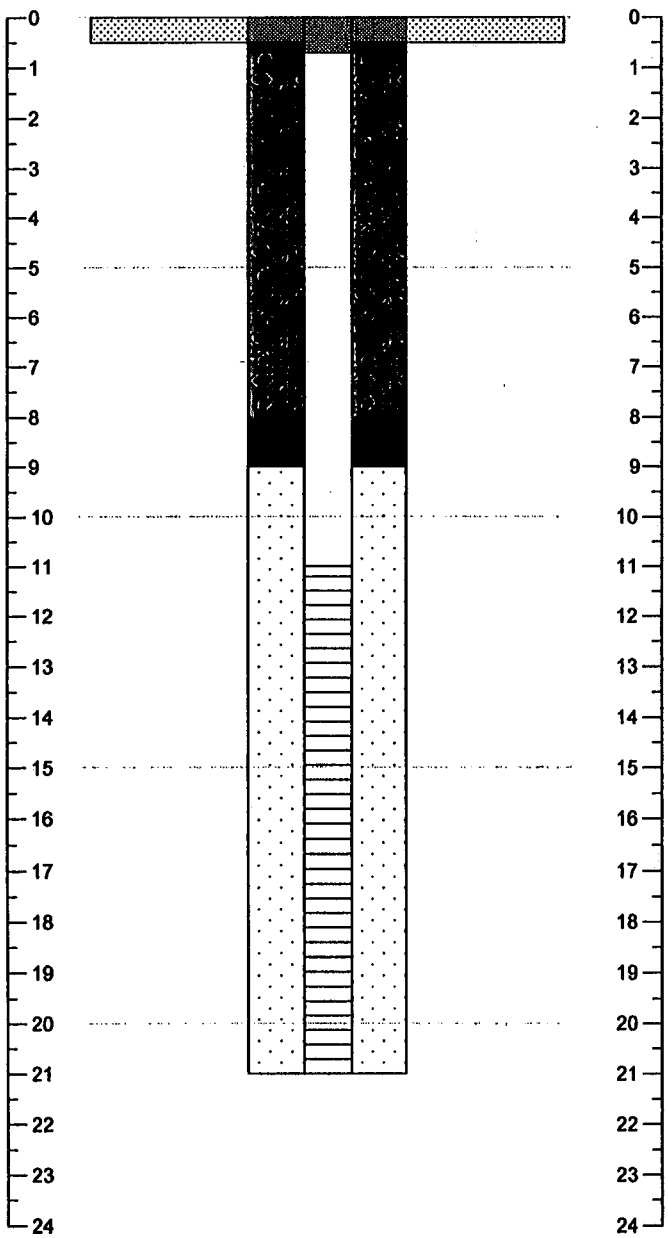
CH2MHILL

WELL CONSTRUCTION LOG

CLIENT: USEPA
PROJECT NUMBER: Diamond Head
PROJECT NAME: Diamond Head
SURFACE ELEVATION: 15.25 feet msl
DRILLING CONTRACTOR: SGS Env.
DRILLING METHOD: Hollow Stem Auger
START: 5/9/2009 9:15:00 AM **FINISH:** 5/9/2009 11:45:00 AM

WELL NUMBER / NJDEP PERMIT: MW-25S / P200905258
LOCATION: Western boring located in the center I-280 median
FINISHED WELL DEPTH: 21.4□ft bgs
INNER CASING ELEVATION(S): 14.76□ft msl
FOREMAN: William Petley **CH2M GEOLOGIST:** David Reamer
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
NORTHING: 696730.59 feet **EASTING:** 593584.67 feet

DEPTH BELOW GRADE (FT)	WELL CONSTRUCTION DIAGRAM	DESCRIPTION



0 - 0.7 ft bgs: LOCKABLE COVER - Flush mount, 8-in diameter steel protective cover.

0 - 0.5 ft bgs: CONCRETE PAD - 2-ft X 2-ft concrete pad for well protective casing

0.5 - 8 ft bgs: GROUTED ANNULUS - Portland cement and bentonite slurry

8 - 9 ft bgs: ANNULAR SEAL - Filpro #00 Quartz Sand

0 - 11 ft bgs: CASING - 2-in Schedule 40 PVC, riser

9 - 21 ft bgs: FILTER PACK - Filpro #1 Quartz Sand

11 - 21 ft bgs: SCREEN - 2-in Schedule 40 PVC, 20-slot machine slotted screen

NOTES: Location: Western boring located in the center I-280 median southwest of the site.

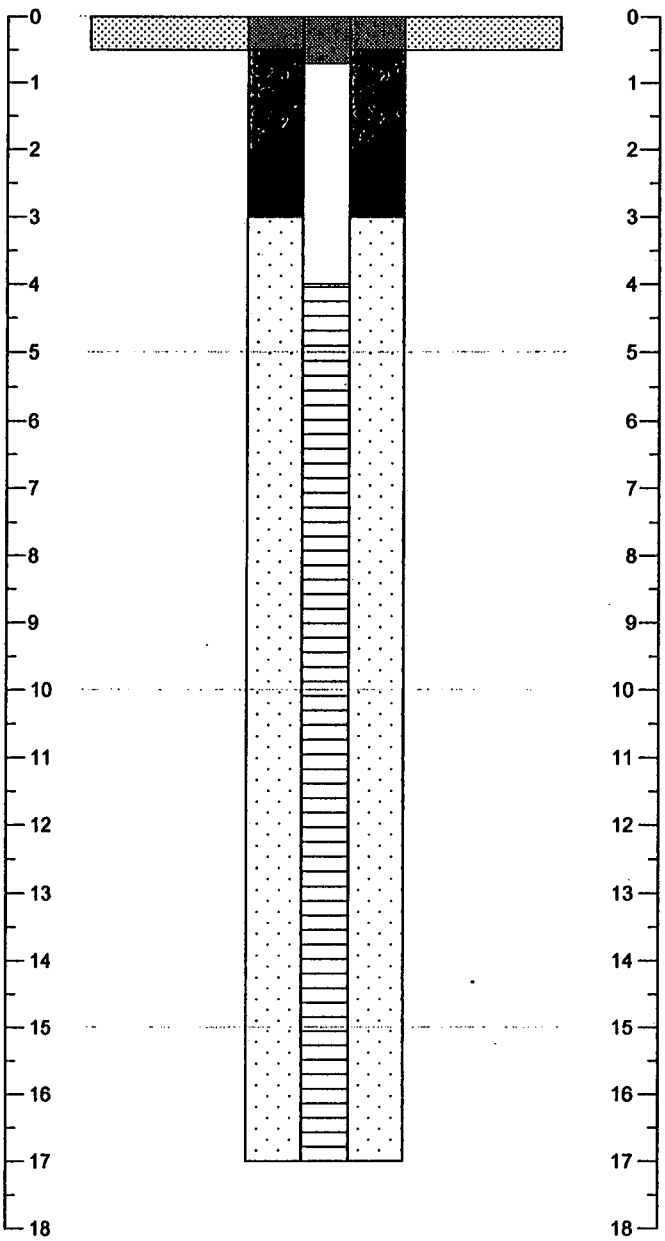
msl = mean sea level
bgs = below ground surface
ags = above ground surface

CH2MHILL

WELL CONSTRUCTION LOG

CLIENT: USEPA
WELL NUMBER / NJDEP PERMIT: MW-26S / P200905258
PROJECT NUMBER: Diamond Head
LOCATION: Eastern boring located in the center I-280 median
PROJECT NAME: Diamond Head
FINISHED WELL DEPTH: 16.8 ft bgs
SURFACE ELEVATION: 10.01 feet msl
INNER CASING ELEVATION(S): 9.58 ft msl
DRILLING CONTRACTOR: SGS Env.
FOREMAN: William Petley **CH2M GEOLOGIST:** David Reamer
DRILLING METHOD: Hollow Stem Auger
DRILLING EQUIPMENT: Hollow Stem Auger L-8000 Drill Rig
START: 5/16/2009 8:40:00 AM **FINISH:** 5/16/2009 9:45:00 AM
NORTHING: 697380.53 feet **EASTING:** 594649.83 feet

DEPTH BELOW GRADE (FT)	WELL CONSTRUCTION DIAGRAM	DESCRIPTION



0 - 0.7 ft bgs: LOCKABLE COVER - Flush mount, 8-in diameter steel protective cover.

0 - 0.5 ft bgs: CONCRETE PAD - 2-ft X 2-ft concrete pad for well protective casing

0.5 - 2 ft bgs: GROUTED ANNULUS - Portland cement and bentonite slurry

2 - 3 ft bgs: ANNULAR SEAL - Filpro #00 Quartz Sand

0 - 4 ft bgs: CASING - 2-in Schedule 40 PVC, riser

3 - 17 ft bgs: FILTER PACK - Filpro #1 Quartz Sand

4 - 17 ft bgs: SCREEN - 2-in Schedule 40 PVC, 20-slot machine slotted screen

NOTES: Location: Eastern boring located in the center I-280 median south of the site.

msl = mean sea level
bgs = below ground surface
ags = above ground surface

Well Development Logs

CH2MHILL

PROJECT NUMBER	WELL NUMBER	
388641.03.03.02	MW-18S	SHEET 1 OF 1

WELL DEVELOPMENT LOG

PROJECT : Diamond Head Oil Superfund Site - OU2 **LOCATION:** Vacant lot adjacent to 1235 Harrison Ave., Kearny, NJ
Development Contractor: SGS Environmental Services - Drilling Division (West Creek, NJ)
START Time: 5/18/09 1324 **END Time :** 5/18/09 1449 **LOGGER :** Dave Reamer

Diameter of Well (inches) & Type: 2" PCV (Schedule 40)
Depth of Well (feet): 15.34'BTIC
Depth to Water (feet) 6.85'BTIC
Water Column Height (feet): 8.49
Gallons per Foot: 0.163
One Well Volume (gallons): 1.4
Five Well Volumes (gallons): 7

Development Method: Purge w/ submersible pump
Surge Block Used: 2" surge block
Screen Interval Surged: 2-12'BGS

Water Quality Meter (Manufacturer/Model/Serial #): Horiba U-52

Maximum Drawdown During Pumping: >14.84
Average Discharge Rate: ~1gpm
Total Quantity of Water Discharged: ~53gallons
Disposition of Discharge Water: clear, slight odor, no sheen

Dia. (in)	Gal./Ft.	Dia. (in)	Gal./Ft.
1"	0.041	5"	1.02
2"	0.163	6"	1.469
3"	0.367	8"	2.611
4"	0.653	10"	4.08

Time	Water Volume Discharged (gal)	Water Level (ft BTIC)	Turbidity (NTU)	Temperature (°C)	pH (Std. Units)	Conductivity (ms/cm)	Remarks (color, odor, sheen, sediment, etc.)
1324	Begin surging entire length of screen						
1340	Surging of well screen completed. Begin purging well.						
1345	Purged well using Whale pump. Water initially v. silty (black) w/ sheen. Purged 5 gallons and well went dry						
1350	Resume purging well. Water is silty w/ no sand, slight sheen. Slight oil like odor.						
1403	21	-	73	-	-	-	Clear/slight odor/no sheen
1420	31	13.87	30.5	12.36	7.82	1.91	Clear/slight odor/no sheen
1440	49	14.82	13.5	12.41	7.8	1.83	Clear/slight odor/no sheen
1449	~53	>14.84	11.7	12.33	7.82	1.81	Clear/slight odor/no sheen

Comments:

NJDEP Well Permit # P200905254

Date: May 2009

CH2MHILL

PROJECT NUMBER	WELL NUMBER	
388641.03.03.02	MW-19S	SHEET 1 OF 1

WELL DEVELOPMENT LOG

PROJECT : Diamond Head Oil Superfund Site - OU2 **LOCATION:** Vacant lot adjacent to 1235 Harrison Ave., Kearny, NJ
Development Contractor: SGS Environmental Services - Drilling Division (West Creek, NJ)
START Time: 5/19/09 0943 **END Time :** 5/19/09 1345 **LOGGER :** Dave Reamer

Diameter of Well (inches) & Type: 2" PCV (Schedule 40)
Depth of Well (feet): 32.34'BTIC
Depth to Water (feet) 26.29'BTIC
Water Column Height (feet): 6.05
Gallons per Foot: 0.163
One Well Volume (gallons): 1
Five Well Volumes (gallons): 7

Development Method: Purge w/ submersible pump
Surge Block Used: 2" surge block
Screen Interval Surged: 19-29'BGS

Water Quality Meter (Manufacturer/Model/Serial #):
Horiba U-52

Maximum Drawdown During Pumping: 29.97
Average Discharge Rate: ~1gpm
Total Quantity of Water Discharged: ~35 gallons
Disposition of Discharge Water: clear, slight odor, no sheen

Dia. (in)	Gal./Ft.	Dia. (in)	Gal./Ft.
1"	0.041	5"	1.02
2"	0.163	6"	1.469
3"	0.367	8"	2.611
4"	0.653	10"	4.08

Time	Water Volume Discharged (gal)	Water Level (ft BTIC)	Turbidity (NTU)	Temperature (°C)	pH (Std. Units)	Conductivity (ms/cm)	Remarks (color, odor, sheen, sediment, etc.)
1945	Begin surging entire length of screen						
1010	Surging of well screen completed. Begin purging well.						
1140	~20	29.12	132	16.6	7.41	2.54	black silty water w/ organic like odor
1155	~22	29.96	1492	16.87	7.35	3.07	cloudy/no silt or sand/slight odor
1325	~29	28.66	21.8	17.69	7.27	3.44	clear/no sheen/slight odor/no silt or sand
1335	~32	28.7	6.92	17.68	7.27	3.50	clear/no sheen/slight odor/no silt or sand
1345	~35	28.67	4.04	17.79	7.26	3.54	clear/no sheen/slight odor/no silt or sand

Comments: Periodically surged well during purge w/ pump from 1010 to 1140

NJDEP Well Permit # P200905257

CH2MHILL

PROJECT NUMBER	WELL NUMBER	
388641.03.03.02	MW-20S	SHEET 1 OF 1

WELL DEVELOPMENT LOG

PROJECT : Diamond Head Oil Superfund Site - OU2 **LOCATION:** Vacant lot adjacent to 1235 Harrison Ave., Kearny, NJ
Development Contractor: SGS Environmental Services - Drilling Division (West Creek, NJ)
START Time: 5/18/09 1525 **END Time :** 5/19/09 0925 **LOGGER :** Dave Reamer

Diameter of Well (inches) & Type: 2" PCV (Schedule 40)
Depth of Well (feet): 30.36
Depth to Water (feet) 24.03
Water Column Height (feet): 6.33
Gallons per Foot: 0.163
One Well Volume (gallons): 1
Five Well Volumes (gallons): 5

Development Method: Purge w/ submersible pump
Surge Block Used: 2" surge block
Screen Interval Surged: 17-27'BGS

Water Quality Meter (Manufacturer/Model/Serial #): Horiba U-52

Maximum Drawdown During Pumping: 29.12
Average Discharge Rate: >1gpm
Total Quantity of Water Discharged: 68 gallons
Disposition of Discharge Water: clear, slight yellow color, slight sheen, slight sweet odor

Dia. (in)	Gal./Ft.	Dia. (in)	Gal./Ft.
1"	0.041	5"	1.02
2"	0.163	6"	1.469
3"	0.367	8"	2.611
4"	0.653	10"	4.08

Time	Water Volume Discharged (gal)	Water Level (ft BTIC)	Turbidity (NTU)	Temperature (°C)	pH (Std. Units)	Conductivity (ms/cm)	Remarks (color, odor, sheen, sediment, etc.)
18-May							
1505	Begin surging entire length of screen						
1525	Surging of well screen completed. Begin purging well.						Black silt w/ oil like sheen
1534	15	-	-	-	-	-	Well went dry, shut down pump
1537	-	25.17	-	-	-	-	Restart Purge
1645	~35	-	-	-	-	-	Black silt w/ sheen. Shut down pump
19-May							
745	Surged well for 18 minutes. DTW=24.17'BTIC, TD=30.35'BTIC. Begin purging well						
835	59	29.62	-	-	-	-	Well went dry, allowing to recharge.
857	59	27.25	-	-	-	-	Restart pump
900	61	27.25	32.2	15.3	7.43	3.99	Clear/slight yellow color/sweet odor/no sheen
910	63	28.32	9.28	15.49	7.44	3.98	Clear/slight yellow color/sweet odor/no sheen
920	65	29.12	13.1	15.67	7.44	4.48	Clear/slight yellow color/sweet odor/no sheen
925	68	27.8					TD=30.36'BTIC. Stop purge

Comments: Periodically surged well during purge w/ pump from 1010 to 1140

NJDEP Well Permit # P200905255

CH2MHILL

PROJECT NUMBER	WELL NUMBER	
388641.03.03.02	MW-21S	SHEET 1 OF 1

WELL DEVELOPMENT LOG

PROJECT : Diamond Head Oil Superfund Site - OU2 **LOCATION:** Vacant lot adjacent to 1235 Harrison Ave., Kearny, NJ
Development Contractor: SGS Environmental Services - Drilling Division (West Creek, NJ)
START Time: 5/17/09 1430 **END Time :** 5/17/09 1630 **LOGGER :** Dave Reamer

Diameter of Well (inches) & Type: 2" PCV (Schedule 40)
Depth of Well (feet): 9.2
Depth to Water (feet) 3.36
Water Column Height (feet): 5.84
Gallons per Foot: 0.163
One Well Volume (gallons): 1
Five Well Volumes (gallons): 5

Development Method: Purge w/ submersible pump
Surge Block Used: 2" surge block
Screen Interval Surged: 3-9'BGS

Water Quality Meter (Manufacturer/Model/Serial #):
Horiba U-52

Maximum Drawdown During Pumping: 3.71
Average Discharge Rate: 1 gpm
Total Quantity of Water Discharged: 130 gallons
Disposition of Discharge Water: Light brown (tea like) color, no odor, no sheen. "Soap" suds present in water throughout purge

Dia. (in)	Gal./Ft.	Dia. (in)	Gal./Ft.
1"	0.041	5"	1.02
2"	0.163	6"	1.469
3"	0.367	8"	2.611
4"	0.653	10"	4.08

Time	Water Volume Discharged (gal)	Water Level (ft BTIC)	Turbidity (NTU)	Temperature (°C)	pH (Std. Units)	Conductivity (ms/cm)	Remarks (color, odor, sheen, sediment, etc.)
1410	Begin surging entire length of screen						D.brown silt/ no odor or sheen. 'Soap' suds
1505	Surging of well screen completed. Begin purging well.						present
1600	95	3.71	62.9	13.71	10.95	-	Brown tea like color w/ soap like suds
1615	112	3.71	40.4	13.29	10.58	-	Brown tea like color w/ soap like suds
1630	130	3.71	31.8	13.21	10.5	-	Brown tea like color w/ soap like suds
1631	End purge. Final TD=9.20'BTIC						Brown tea like color w/ soap like suds

Comments: Periodically surged well during purge w/ pump during purge. Purge water contained "soap like" suds throughout entire purge. Water had a light brown, tea like color throughout the purge. pH abnormally high during development.

NJDEP Well Permit # P200905261

CH2MHILL

PROJECT NUMBER	WELL NUMBER	
388641.03.03.02	MW-23S	SHEET 1 OF 1

WELL DEVELOPMENT LOG

PROJECT : Diamond Head Oil Superfund Site - OU2 **LOCATION:** Vacant lot adjacent to 1235 Harrison Ave., Kearny, NJ
Development Contractor: SGS Environmental Services - Drilling Division (West Creek, NJ)
START Time: 5/21/09 1010 **END Time :** 5/21/09 115 **LOGGER :** Dave Reamer

Diameter of Well (inches) & Type: 2" PCV (Schedule 40)
Depth of Well (feet): 7.70'BTIC
Depth to Water (feet) 1.85
Water Column Height (feet): 5.85
Gallons per Foot: 0.163
One Well Volume (gallons): 1
Five Well Volumes (gallons): 5

Development Method: Purge w/ submersible pump
Surge Block Used: 2" surge block
Screen Interval Surged: 3-9'BGS

Water Quality Meter (Manufacturer/Model/Serial #):
Horiba U-52

Maximum Drawdown During Pumping: 2.69
Average Discharge Rate: ~1gpm
Total Quantity of Water Discharged: 52
Disposition of Discharge Water: Clear/ no sheen/slight organic like odor

Dia. (in)	Gal./Ft.	Dia. (in)	Gal./Ft.
1"	0.041	5"	1.02
2"	0.163	6"	1.469
3"	0.367	8"	2.611
4"	0.653	10"	4.08

Time	Water Volume Discharged (gal)	Water Level (ft BTIC)	Turbidity (NTU)	Temperature (°C)	pH (Std. Units)	Conductivity (ms/cm)	Remarks (color, odor, sheen, sediment, etc.)
1005	Begin surging entire length of screen						
1020	Surging of well screen completed. Begin purging well.						Black silt and organic like odor present
1055	38	2.69	33.7	15.77	7.52	1.01	Clear/ no sheen/ slight organic like odor
1110	48	2.64	5.82	15.99	7.51	1.01	Clear/ no sheen/ slight organic like odor
1115	52	2.64	8.64	16.3	7.27	1.02	Clear/ no sheen/ slight organic like odor
1116	Shut down pump.						

Comments: Periodically surged well during purge w/ pump

NJDEP Well Permit # P200905259

Date: May 2009

CH2MHILL

PROJECT NUMBER	WELL NUMBER	
388641.03.03.02	MW-24S	SHEET 1 OF 1

WELL DEVELOPMENT LOG

PROJECT : Diamond Head Oil Superfund Site - OU2 **LOCATION:** Vacant lot adjacent to 1235 Harrison Ave., Kearny, NJ
Development Contractor: SGS Environmental Services - Drilling Division (West Creek, NJ)
START Time: 5/20/09 0747 **END Time :** 5/20/09 0950 **LOGGER :** Dave Reamer

Diameter of Well (inches) & Type: 2" PCV (Schedule 40)
Depth of Well (feet): 8.69
Depth to Water (feet) 2.13
Water Column Height (feet): 6.56
Gallons per Foot: 0.163
One Well Volume (gallons): 1
Five Well Volumes (gallons): 5

Development Method: Purge w/ submersible pump
Surge Block Used: 2" surge block
Screen Interval Surged: 3-9'BGS

Water Quality Meter (Manufacturer/Model/Serial #):
Horiba U-52

Maximum Drawdown During Pumping: 4.55
Average Discharge Rate: ~1gpm
Total Quantity of Water Discharged: 35
Disposition of Discharge Water: Clear/ no sheen/slight organic like odor

Dia. (in)	Gal./Ft.	Dia. (in)	Gal./Ft.
1"	0.041	5"	1.02
2"	0.163	6"	1.469
3"	0.367	8"	2.611
4"	0.653	10"	4.08

Time	Water Volume Discharged (gal)	Water Level (ft BTIC)	Turbidity (NTU)	Temperature (°C)	pH (Std. Units)	Conductivity (ms/cm)	Remarks (color, odor, sheen, sediment, etc.)
747	Begin surging entire length of screen						
809	Surging of well screen completed. Begin purging well.						Black silt and organic like odor present
920	27	4.55	15.2	15.77	7.52	1.01	Clear/ no sheen/ slight organic like odor
935	31	3.98	6.67	15.99	7.51	1.01	Clear/ no sheen/ slight organic like odor
950	35	3.74	6.56	16.3	7.27	1.02	Clear/ no sheen/ slight organic like odor
951	Shut down pump. Final DTW= 4.50'BTIC, Final TD=8.7'BTIC						

Comments: Periodically surged well during purge w/ pump

NJDEP Well Permit # P200905260

Date: May 2009

CH2MHILL

PROJECT NUMBER	WELL NUMBER	
388641.03.03.02	MW-25S	SHEET 1 OF 1

WELL DEVELOPMENT LOG

PROJECT : Diamond Head Oil Superfund Site - OU2 **LOCATION:** Vacant lot adjacent to 1235 Harrison Ave., Kearny, NJ
Development Contractor: SGS Environmental Services - Drilling Division (West Creek, NJ)
START Time: 5/9/2009 1238 **END Time :** 5/9/09 1344 **LOGGER :** Dave Reamer

Diameter of Well (inches) & Type: 2" PCV (Schedule 40)
Depth of Well (feet): 21.01'BTIC
Depth to Water (feet) 13.43
Water Column Height (feet): 7.58
Gallons per Foot: 0.163
One Well Volume (gallons): 1.2
Five Well Volumes (gallons): 6

Development Method: Purge w/ submersible pump
Surge Block Used: 2" surge block
Screen Interval Surged: 11-21'BGS

Water Quality Meter (Manufacturer/Model/Serial #): Horiba U-52

Maximum Drawdown During Pumping: NA
Average Discharge Rate: >1gpm
Total Quantity of Water Discharged: 16
Disposition of Discharge Water: Slightly cloudy/ v. small amount of s silt

Dia. (in)	Gal./Ft.	Dia. (in)	Gal./Ft.
1"	0.041	5"	1.02
2"	0.163	6"	1.469
3"	0.367	8"	2.611
4"	0.653	10"	4.08

Time	Water Volume Discharged (gal)	Water Level (ft BTIC)	Turbidity (NTU)	Temperature (°C)	pH (Std. Units)	Conductivity (ms/cm)	Remarks (color, odor, sheen, sediment, etc.)
1238	Begin surging entire length of screen						
1300	Surging of well screen completed. Begin purging well.						M.brown/ silty/ no odor/ no sheen
1344	Development complete. Water has cleared to slightly cloudy w/ a very small amount of silt present. Groundwater parameters were not						
	collected since a water quality meter was not present and development could not be postponed due to Saturday well installation constraints.						
	Visual observation of water quality is satisfactory						

Comments: Periodically surged well during purge w/ pump

NJDEP Well Permit # P200905258

Date: May 2009

CH2MHILL

PROJECT NUMBER	WELL NUMBER	
388641.03.03.02	MW-26S	SHEET 1 OF 1

WELL DEVELOPMENT LOG

PROJECT : Diamond Head Oil Superfund Site - OU2 **LOCATION:** Vacant lot adjacent to 1235 Harrison Ave., Kearny, NJ
Development Contractor: SGS Environmental Services - Drilling Division (West Creek, NJ)
START Time: 5/16/09 1050 **END Time :** 5/16/09 1131 **LOGGER :** Dave Reamer

Diameter of Well (inches) & Type: 2" PCV (Schedule 40)
Depth of Well (feet): 17.2'BTIC
Depth to Water (feet) 5.5'BTIC
Water Column Height (feet): 11.7
Gallons per Foot: 0.163
One Well Volume (gallons): 2
Five Well Volumes (gallons): 10

Development Method: Purge w/ submersible pump
Surge Block Used: 2" surge block
Screen Interval Surged: 4-17'BGS

Water Quality Meter (Manufacturer/Model/Serial #):
Horiba U-52

Maximum Drawdown During Pumping: 8.3
Average Discharge Rate: ~1gpm
Total Quantity of Water Discharged: 34
Disposition of Discharge Water: clear / no odor / no sheen

Dia. (in)	Gal./Ft.	Dia. (in)	Gal./Ft.
1"	0.041	5"	1.02
2"	0.163	6"	1.469
3"	0.367	8"	2.611
4"	0.653	10"	4.08

Time	Water Volume Discharged (gal)	Water Level (ft BTIC)	Turbidity (NTU)	Temperature (°C)	pH (Std. Units)	Conductivity (ms/cm)	Remarks (color, odor, sheen, sediment, etc.)
1050	Begin surging entire length of screen						
1106	Surging of well screen completed. Begin purging well.						M. Brown/ no odor / no sheen / silty.
1115	10	7.35	2094	-	-	-	M. Brown/ no odor / no sheen / silty
1120	18	8.3	106	12.95	7.36	3.11	Cloudy/ no sheen/ no odor
1130	28	7.35	27.7	12.83	7.44	NM	Clear/ no sheen/ no odor
1136	34	NM	24.6	12.75	7.47	NM	Clear/ no sheen/ no odor
1137	Shut down pump.						

Comments: Periodically surged well during purge w/ pump

NJDEP Well Permit # P200905256

Date: May 2009

Appendix C
Low-Flow Groundwater Sampling Field Data Sheets

Appendix C

Table of Contents

Low-Flow Groundwater Sampling: Field Data Sheets

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: ~~MW-4~~ MW-1S
Field Crew: G Sharkey
Well Depth (ft.): 16.99
DTW (ft.): 6.17
Water Column (ft.): 10.82'
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 7.05 gallons
Depth of Screen (ft.):

Purge Methodology: Low Flow

Water Quality Meter: Horiba U-22 w/ flow cell

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: June 1, 2009 Project #: 388641

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	Slight yellowish
Initial	1425	6.40	450	0.75	7.15	15.71	1.73	~~80.6~~ -108	~~700~~ 3.09	80.6	color
1 VOL.	1430	6.44	450	1.2	7.13	15.24	1.76	-107	2.06	61.6	
2 VOL.	1435	6.30	150	1.5	7.12	15.69	1.74	-107	1.63	53.8	
3 VOL.	1440	6.26	↓	1.9	7.12	15.92	1.74	-111	1.45	40.0	
4 VOL.	1445	6.25	↓	2.3	7.12	15.78	1.73	-113	1.26	41.5	
5 VOL.	1450	6.24	↓	2.6	7.12	15.75	1.74	-115	1.16	37.3	
6 VOL.	1455	6.24	↓	3.1	7.10	15.74	1.74	-118	1.20	38.0	
7 VOL.	1500	SAMPLE									
8 VOL.											
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 15' BTIC

Control Box Setting (Hz): Development: 50.3 Hz

Sampling: (Sample at 100-250 ml/min) 150mL/min

SAMPLING

Depth to Water Before Sampling: 6.24
Sample Methodology: Low Flow
Sample Name: MW01S-3
QC Sample: None
Sample Date/Time: June 1, 2009 @ 1500
Sampler / Signature: Graham Sharkey / Gordon Sharkey
Filtered Metals Collected: Y / (N) Filter Size: NA
Sample Observations:
Parameters: VOC, SVOC, Pesticides, PCB, & Metals

0.653
10.82
13060
52200
6 5 2 0 0 0
7.04546 0

Revision No. 1
Date: August 2007

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-2S
Field Crew: G Sharkey
Well Depth (ft.): 13.71
DTW (ft.): 4.58
Water Column (ft.): 9.13
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 5.96 gallons
Depth of Screen (ft.): ~~2~~

Purge Methodology: Low Flow w/ Grundfos Pump

Water Quality Meter: Horiba U-22 w/ flow cell

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: 6-1-09 Project #: 388841

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1115	6.40	440	0.2	6.98	13.83	.559	7	11.44	22.3	Slightly turbid w/ a
1 VOL.	1120	9.66	320	0.7	7.40	14.70	0.475	-91	2.36	20.8	slight yellowish color
2 VOL.	1125	10.05	320	1.0	7.60	13.97	0.440	-112	1.99	11.60	-No Odor
3 VOL.	1130	10.10	150	1.2	8.11	13.55	0.409	-138	1.76	4.5	
4 VOL.	1135	9.81	250	1.5	8.61	13.80	0.412	-135	2.57	3.0	
5 VOL.	1140	9.94	250	1.8	8.81	13.92	0.423	-123	3.65	3.2	
6 VOL.	1145	9.70	↓	2.2	8.99	14.07	0.430	-120	4.10	2.8	
7 VOL.	1150	9.62		2.6	9.09	14.12	0.435	-120	4.02	3.3	
8 VOL.	1155	9.50		3.2	9.22	14.21	0.439	-120	3.94	2.5	
9 VOL.	1200	9.43		3.6	9.29	14.28	0.443	-123	3.78	1.8	
10 VOL.	1205	9.41		4.0	9.30	14.27	0.447	-120	3.80	1.9	
Post-Purge	1210	SAMPLE									

Remarks: Pump Intake Depth: 12.0' BTIC Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SAMPLING

Depth to Water Before Sampling: 9.41
Sample Methodology: Low Flow
Sample Name: MW-02S-3 QC Sample: None
Sample Date/Time: June 1, 2009 / 1210
Sampler / Signature: Graham Sharkey / Graham Sharkey
Filtered Metals Collected: Y / (N) Filter Size: N.A.
Sample Observations:
Parameters: VOC, SVOC, Pesticides, PCBs, Metals

9.130
0.653
27390
456500
5473000
5961890

Rvision No. 1
Date: August 2007

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-3
Field Crew: LISA LA FORTUNE / DAVE PLEMER
Well Depth (ft.): – not measured,
DTW (ft.): do not want to
Water Column (ft.): disturb entire GROUNDFOS PUMP
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.):
Depth of Screen (ft.):

Purge Methodology: LOW FLOW WITH
Water Quality Meter: Horiba U-22 w/ flow cell

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: 06/11/09 Project #: 388641

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. (Surface) (mg/l)	Turbidity (NTU)	Color/Odor	LAMOTTE
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	BLACK, SLIGHT SHEEN / FOUL	
Initial	1400	N.M	300	—	—	—	—	—	—	—	" " / "	—
1 VOL.	1425		300	1.3	7.17	14.26	0.863	-150	1.04	14.6	CLEAR / SHEEN / FOUL	6.0
2 VOL.	1435		300	2.0	7.32	14.37	0.967	-202	0.87	1.8	CLEAR / SHEEN / FOUL	4.96
3 VOL.	1440		300	2.5	7.36	14.49	1.02	-269	0.78	0.0	FINE BLACK PARTICLES CLEAR / SHEEN / FOUL	4.04
4 VOL.	1445		300	3.0	7.33	14.56	1.05	-310	0.70	0.0	" " "	2.11
5 VOL.	1450		300	3.3	7.32	14.59	1.08	-336	0.85	0.0	" " "	0.20
6 VOL.	1455		300	3.7	7.31	14.62	1.09	-341	0.67	0.0	" " "	0.20
7 VOL.	1500		300	4.1	7.31	14.68	1.12	-348	0.61	0.0	" " "	0.21
8 VOL.	1505	↓	300	4.4	7.26	14.59	1.10	-353	0.56	0.0	" " "	0.65
9 VOL.	SAMPLE @ 1510											
10 VOL.												
Post-Purge												

Remarks: Pump Intake Depth: ~11' BTIC Control Box Setting (Hz): Development: 45 % Sampling: (Sample at 100-250 ml/min)

L NAPL ON WATER SURFACE. ICE COATING PLACED AROUND PUMP & SCREEN INTAKE TO LOWER BELOW NAPL THICKNESS.
NO GLOBULES PRESENT. VERY SLIGHT SHEEN. SMALL AMOUNT OF FINE BLACK PARTICLES OBSERVED DURING PURGE.

SAMPLING

Depth to Water Before Sampling: NM - No drawdown observed
Sample Methodology: LOW FLOW
Sample Name: MW-3D QC Sample: NO
Sample Date/Time: 06/11/09 / 1510
Sampler / Signature: LISA LA FORTUNE / [signature]
Filtered Metals Collected: Y / (N) Filter Size: NA
Sample Observations: CLEAR WITH FINE BLACK PARTICLES, VERY SLIGHT SHEEN FROM PARTICLES, NOT OIL GLOBULES
Parameters: TCL VOC, SVOC, PCB, PESTICIDES, TAL METALS
3- 40ml VOA w/HCL 1:1 2- 1L AMBER 1- 1L PLASTIC

Revision No. 1
Date: August 2007

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-4
Field Crew: GS (Graham Sherkey)
Well Depth (ft.): 13.24
DTW (ft.): 6.72
Water Column (ft.): 6.52
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 4.25
Depth of Screen (ft.): —

Purge Methodology: Low flow w/ 2" Grundfos Pump
Water Quality Meter: Horiba U-22 w/ flow cell

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: May 28, 2009 Project #: 388641

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1535	NA*	500	0.3	6.68	12.86	2.13	-118	14.43	13.7	Clear w/ a yellowish
1 VOL.	1540		200	1.3	6.63	13.88	2.10	-134	3.76	15.8	tint / no odor
2 VOL.	1545			1.6	6.60	14.11	2.08	-151	3.05	16.0	
3 VOL.	1550			2.2	6.62	14.25	2.07	-168	2.74	14.8	
4 VOL.	1555			2.8	6.63	14.15	2.08	-183	2.45	11.4	
5 VOL.	1600			3.3	6.63	14.04	2.07	-190	2.29	10.9	
6 VOL.	1605			3.6	6.62	13.88	2.06	-1.95	2.25	9.5	
7 VOL.											
8 VOL.	1610	SAMPLE									
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 11' ~~top~~ BTIC

Control Box Setting (Hz): Development: 78 Hz

Sampling: (Sample at 100-250 ml/min) 200

* Water level meter not working

SAMPLING

Depth to Water Before Sampling: NA*
Sample Methodology: Low Flow
Sample Name: MW-4-3
QC Sample: None
Sample Date/Time: May 28, 2009 @ 1610
Sampler / Signature: Graham Sherkey / Graham Sherkey
Filtered Metals Collected: Y (N) Filter Size: NA
Sample Observations:
Parameters: VOC, SVOC, Metals, Pesticides, & PCB's

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-3
Field Crew: MM / GS

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: 5/28/09 Project #: 388641

Well Depth (ft.): 22.42'
DTW (ft.): 12.90'
Water Column (ft.): 9.48'
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.):
Depth of Screen (ft.):

Purge Methodology: CFSP Grundfos Pump

Water Quality Meter: Horiba U-22 w/ flow cell Lamotte 2020

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	920	15.71	500	1.0	6.30	13.63	1.97	-186	1.87	24	Clear / no odor
1 VOL.	925	16.70	150	1.3	6.27	15.01	1.96	-203	1.75	24.9	
2 VOL.	930	17.69	↓	1.7	6.33	14.26	1.97	-210	1.69	20.4	
3 VOL.	935	17.70	↓	2.1	6.32	14.92	1.96	-182	2.07	21.3	
4 VOL.	940	17.76	↓	2.5	6.33	15.45	1.96	-194	1.71	21.1	
5 VOL.	945	17.81	↓	2.7	6.35	15.85	1.96	-188	1.74	20.9	
6 VOL.	950	17.86	↓	2.9	6.37	16.25	1.95	-187	1.87	21.3	
7 VOL.											
8 VOL.	0957	SAMPLE									
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 19.5' BTIC

Control Box Setting (Hz): 90 Hz

Development:

Sampling: (Sample at 100-250 ml/min) 150 mL/min

SAMPLING

Depth to Water Before Sampling: 17.86'
Sample Methodology: Low Flow
Sample Name: MW-5-3
QC Sample: NONE
Sample Date/Time: May 28, 2009 @ 0957
Sampler / Signature: Graham Sharkey / Graham Sharkey
Filtered Metals Collected: Y / (N) Filter Size: NA
Sample Observations:
Parameters: VOC, SVOC, PCB, Pest, Metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-63
Field Crew: MM/GS

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: 8/28/09 Project #: 388641

Well Depth (ft.): 13.24
DTW (ft.): 6.32
Water Column (ft.): ~~10~~ 9.92'
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 6.5
Depth of Screen (ft.): 2-5' BGS

Purge Methodology: CFSP groundfos pump teflon tubing

Water Quality Meter: Horiba U-22 w/ flow cell Lamotte 2020e

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1120	~~7.05~~ 6.84	250	0.5	7.03	12.97	2.65	-115	16.26	86.6	Slight brownish
1 VOL.	1125	6.96	250	1.0	7.10	14.69	2.51	-146	2.62	28.4	cloudy color w/ slight odor
2 VOL.	1130	6.96	250	1.5	7.12	14.91	2.46	-147	2.30	24.0	
3 VOL.	1135	6.88	250	2.0	7.14	15.36	2.40	-149	1.87	24.6	
4 VOL.	1140	6.86	250	2.5	7.18	15.90	2.35	-148	2.30	23.9	
5 VOL.	1145	6.84	250	2.8	7.18	16.15	2.32	-147	1.57	22.7	
6 VOL.	1150	6.80	250	3.2	7.18	16.13	2.26	-144	1.46	22.2	
7 VOL.	1155	6.86	250	3.7	7.21	15.83	2.19	-144	1.24	20.7	
8 VOL.	1200	6.94	250	4.1	7.19	15.47	2.13	-144	1.20	20.2	
9 VOL.	1205	6.92	250	4.6	7.19	15.40	2.09	-144	1.12	19.9	
10 VOL.											
Post-Purge	1210	SAMPLE									

Remarks: Pump Intake Depth: ~11' btc

Control Box Setting (Hz): Development: 8

Sampling: (Sample at 100-250 ml/min) 250

SAMPLING

Depth to Water Before Sampling: 6.92
Sample Methodology: Low Flow Sample Procedure
Sample Name: MW-63-3 QC Sample: NONE
Sample Date/Time: 8/28/09
Sampler / Signature: Graham Sharkey / Graham Sharkey
Filtered Metals Collected: ~~YES~~ NO Filter Size: NON FILTERED
Sample Observations:
Parameters: VOC, SVOC, PCB, PEST, METALS

Rvision No. 1
Date: August 2007

6.5300
+0.0653
~~6.59~~
6.60

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-7S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: G Sharkey	Date: May 29, 2009 Project #: 388641
Well Depth (ft.): 15.15'	Purge Methodology: Low Flow
DTW (ft.): 5.05'	
Water Column (ft.): 10.10'	
Well Diameter (in.): 4"	
Gal. per ft.: 0.653	Water Quality Meter: Horiba U-22 w/ flow cell
Well Volume (gal.): 6.60 gal	
Depth of Screen (ft.): 3-13' BGS	

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. (Surface) (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1125	6.04	220	1.0	7.24	14.35	0.70	-160	11.61	42.9	Slight turbid color
1 VOL.	1130	6.54	160	1.4	7.24	15.06	0.695	-161	6.67	34.5	w/ no odor
2 VOL.	1135	6.90	240	1.7	7.26	14.15	0.694	-161	4.06	28.8	
3 VOL.	1140	6.97	↓	2.2	7.26	14.97	0.683	-166	3.35	24.4	
4 VOL.	1145	7.10	↓	2.5	7.27	15.49	0.686	-168	3.17	21.6	
5 VOL.	1150	7.14	↓	2.9	7.29	16.77	0.684	-165	3.40	21.1	
6 VOL.	1155	7.17	600	3.5	7.33	15.96	0.680	-160	3.41	20.7	
7 VOL.	1200	—									
8 VOL.	1205	8.20	220	5.0	7.35	16.24	0.631	-133	2.62	24.0	
9 VOL.	1210	8.24	↓	5.4	7.36	16.54	0.621	-140	2.65	22.5	
10 VOL.	1215	8.32	↓	5.8	7.38	17.67	0.615	-140	2.71	22.0	
Post-Purge	1220	SAMPLE									

Remarks: Pump Intake Depth: 14.0' BTIC

Control Box Setting (Hz): Development: 44.40 Hz

Sampling: (Sample at 100-250 ml/min) 220 mL/min

SAMPLING

Depth to Water Before Sampling: 8.32

Sample Methodology: Low Flow

Sample Name: QC Sample: Duplicate

Sample Date/Time: May 29, 2009 @ 1220

Sampler / Signature: Graham Sharkey / Graham Sharkey

Filtered Metals Collected: Y (N) Filter Size: NA

Sample Observations:

Parameters: VOC, SVOC, Pesticides, PCB, & Metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-9S
Field Crew: Graham Sharkey
Well Depth (ft.): 16.04'
DTW (ft.): 6.18
Water Column (ft.): 9.86'
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 6.4 gallons
Depth of Screen (ft.): 1-121 BTIC

Pump Methodology: Low flow w/ 2" Grundfos Pump
Water Quality Meter: Horiba U-22 w/ flow cell

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: May 29, 2009 Project #: 388641

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	Slight darkish
Initial	1455	6.41	200	0.2	7.16	15.08	0.694	-171	0.88	80.6	turbid color w/
1 VOL.	1500	6.70		0.5	7.14	17.59	0.688	-172	0.99	54.9	an odor
2 VOL.	1505	6.91		0.8	7.14	18.80	0.675	-172	0.77	54.8	
3 VOL.	1510	6.97		1.1	7.12	19.07	0.653	-171	0.62	55.6	
4 VOL.	1515	7.29		1.7	7.12	14.67	0.692	-172	0.72	39.3	
5 VOL.	1520	7.42		1.9	7.11	15.47	0.676	-175	0.63	36.6	
6 VOL.	1525	7.49		2.4	7.12	17.31	0.678	-175	0.71	28.6	
7 VOL.	1530	7.65		2.7	7.12	16.71	0.676	-175	0.65	26.2	
8 VOL.	1535			2.9	7.13	17.37	0.668	-174	0.66	26.3	
9 VOL.	1540	SAMPLE									
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 15.0'
Control Box Setting (Hz): Development: 49.0 Hz
Sampling: (Sample at 100-250 ml/min) 200 mL/min

The grundfos pump used to purge/sample MW-9S was also used to collect an equipment blank

SAMPLING

Depth to Water Before Sampling:
Sample Methodology: Low Flow
Sample Name: MW-9S
QC Sample: MS/MSD for pesticides, PCB's & metals
Sample Date/Time: May 29, 2009
Sampler / Signature: Graham Sharkey / Graham Sharkey
Filtered Metals Collected: Y / (N) Filter Size: N/A
Sample Observations:
Parameters: VOC, SVOC, Pesticides, PCB's, Metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-10S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: Graham Sharkey	Date: 6-3-09 Project #: 388641
Well Depth (ft.): 12.04'	Purge Methodology: Low Flow
DTW (ft.): 4.62'	
Water Column (ft.): 7.58'	
Well Diameter (in.): 4"	
Gal. per ft.: 0.653	Water Quality Meter:
Well Volume (gal.):	Horiba ~~U-22~~ w/ flow cell
Depth of Screen (ft.): 7-9' BGS	0.57.

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. (Surface) (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	Clear yellowish color
Initial	0910	4.65	500	1.5	7.33	13.96	1.41	-159	3.07	13.5	w/ some odor
1 VOL.	0915	4.65	350	2.2	7.36	14.61	1.38	-169	1.42	7.00	
2 VOL.	0920	4.67	|	2.6	7.36	14.81	1.36	-168	1.31	3.9	
3 VOL.	0925	4.67	|	3.2	7.35	15.15	1.37	-160	1.20	2.8	
4 VOL.	0930	4.67	|	3.7	7.35	15.45	1.37	-159	1.10	1.5	
5 VOL.	0935	4.67	|	4.1	7.32	15.83	1.36	-150	1.09	1.0	
6 VOL.	0940	SAMPLE									
7 VOL.											
8 VOL.											
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 10.5' BTIC

Control Box Setting (Hz): 42Hz Development: Sampling: (Sample at 100-250 ml/min) 250

SAMPLING

Depth to Water Before Sampling: 4.67

Sample Methodology: Low Flow

Sample Name: MW-10S-3 QC Sample: None

Sample Date/Time: June 3, 2009 @0940

Sampler / Signature: Graham Sharkey / Graham Sharkey

Filtered Metals Collected: Y / (N) Filter Size: NA

Sample Observations:

Parameters: VOC, SVOC, PCB, Pesticides, & Metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-10D	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: G Slarkey / A Harclerode	Date: 6-3-09 Project #: 388641
Well Depth (ft.): 31.27'	Purge Methodology: Grundfos pump low flow
DTW (ft.): 8.52'	
Water Column (ft.): 22.75	
Well Diameter (in.): 4"	
Gal. per ft.: 0.653	Water Quality Meter: Horiba U-22 w/ flow cell
Well Volume (gal.): 15	
Depth of Screen (ft.): 15-25 BGS	

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	9:15	13.49	300	1.5	7.10	14.76	2.45	-88	0.00	230	tan/brown/no odor
1 VOL.	9:20	13.57	340	2.2	7.10	14.94	2.50	-90	0.00	55	tan/no odor
2 VOL.	9:25	13.57	310	2.5	7.11	15.05	2.50	-92	0.00	34	light tan/no odor
3 VOL.	9:30	13.58	300	3.0	7.11	15.31	2.48	-94	0.00	19	clear/no odor
4 VOL.	9:35	13.60	300	3.7	7.11	15.32	2.48	-94	0.00	12	clear/no odor
5 VOL.	9:40	13.55	300	4.0	7.11	15.34	2.47	-97	0.00	7.9	clear/no odor
6 VOL.	9:45	13.56	250	4.3	7.11	15.54	2.46	-99	0.00	7.2	clear/no odor
7 VOL.	9:50	13.56	260	4.8	7.11	15.90	2.47	-100	0.00	8.3	clear/no odor
8 VOL.	9:55	SAMPLE									
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 30' BTOC

Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SAMPLING

Depth to Water Before Sampling: 13.55

Sample Methodology: Grundfos pump

Sample Name: MW-10D-3 QC Sample: N/A

Sample Date/Time: 6/3/09 / 9:55

Sampler / Signature: Austin Harclerode / [signature]

Filtered Metals Collected: Y (N) Filter Size: N/A

Sample Observations: clear, no odor

Parameters: VOCs, SVOCs, PCBs, Pesticides, Metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-11S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: G Sharkey / A Harclerode	Date: June 3, 2009 Project #: 388641

Well Depth (ft.): 15.68
DTW (ft.): 5.01
Water Column (ft.): 10.67
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 6.94
Depth of Screen (ft.): 2-12' BGS

Purge Methodology: Low Flow w/ ground for pump

Water Quality Meter: Horiba ~~U-22 w/~~ U-52 flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1415	6.20	350	0.5	7.55	14.33	0.625	-124	1.62	3.6	Clear in color
1 VOL.	1420	↓	300	0.8	7.56	14.90	0.619	-127	0.0	2.4	
2 VOL.	1425	↓	↓	1.0	7.54	15.72	0.613	-128	0.0	1.9	
3 VOL.	1430	↓	↓	1.3	7.53	13.62	0.619	-131	0.0	1.7	
4 VOL.	1435	↓	↓	1.6	7.52	14.29	0.619	-134	0.0	1.5	
5 VOL.	1440	SAMPLE									
6 VOL.											
7 VOL.											
8 VOL.											
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 14.0'

Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SAMPLING

Depth to Water Before Sampling: 6.20
Sample Methodology: Low Flow
Sample Name: MW-11S-3 QC Sample: None
Sample Date/Time: June 3, 2009 @ 1440
Sampler / Signature: Graham Sharkey / Graham Sharkey
Filtered Metals Collected: Y / N Filter Size: NA
Sample Observations:
Parameters: VOC, SVOC, PCB, Pesticides & Metals

10.67
.653
3201
53350
640200.
693751

Rvision No. 1
Date: August 2007

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-11S
Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: LISA LA FORTUNE
Date: 06/09/09 Project #: 388641

Well Depth (ft.): 15.65
DTW (ft.): 3.21
Water Column (ft.): 12.44
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well volume (gal.): 8.123
Depth of Screen (ft.): 2-12' BGS

Purge Methodology: LOW FLOW W/ GRUNDFOS PUMP

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor	LAMOTTE NTU
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%		
Initial	1150	4.35	450	0.4	7.55	17.78	0.500	73	3.11	6.32	NO ODOR CLEAR W/FINE PARTICLES	0.0
1 VOL.	1155	4.35	300	0.3	7.40	17.67	0.499	61	2.52	4.9	CLEAR / NO ODOR	4.7
2 VOL.	1200	4.35	250	0.6	7.33	17.53	0.500	50	2.13	2.9	" / " "	0.0
3 VOL.	1205	4.35	250	0.9	7.30	17.44	0.500	48	2.09	1.5	" / " "	0.0
4 VOL.	1210	4.35	250	1.2	7.28	17.42	0.498	52	2.13	1.1	" / " "	1.4
5 VOL.	1215	4.19	250	1.5	7.27	17.46	0.492	62	2.28	0.0	" / " "	0.0
6 VOL.	1220	4.19	250	1.8	7.28	17.51	0.484	68	2.40	0.0	" / " "	
7 VOL.	1225	4.19	250	2.1	7.27	17.55	0.476	78	2.75	0.0	" / " "	0.0
8 VOL.	1230	4.19	250	2.4	7.27	17.69	0.467	80	2.68	0.0	" / " "	0.0
9 VOL.	1235	4.19	250	2.7	7.27	17.79	0.464	81	2.78	0.0	" / " "	2.3
SAMPLE TIME 10 VOL.	1240	4.19	250	3.0	7.27	17.87	0.460	82	2.73	0.0	" / " "	0.0
Post-Purge	1246	4.19	250	3.5	7.33	16.15	0.446	84	3.07	2.3	" / " "	0.0

Remarks: Pump Intake Depth: 14 ft

Control Box Setting (Hz): Development: 43.71 @ 1150, 34.40 @ 1155

Sampling: (Sample at 100-250 ml/min) 250

7.65 DTW @ 1150, 1210
7.70 DTW @ 1215; 1220; 1225
7.60 DTW @ 1230
7.79 DTW @ 1250 THUNDERSTORM STARTED.

SOLID BEEP NOTED ~ 7.65 ft
INTERMITTENT BEEP & SAW PROBE TOUCH WATER AT 4.35 ft.

SAMPLING

Depth to Water Before Sampling: 4.19 ft
Sample Methodology: LOW FLOW W/GRUNDFOS PUMP
Sample Name: MW-11S-3 QC Sample: NO
Sample Date/Time: 06/09/09 1240
Sampler / Signature: LISA LA FORTUNE
Filtered Metals Collected: (Y) / N Filter Size: 0.45 um
Sample Observations: CLEAR / NO ODOR
Parameters: DISSOLVED METALS - 1-1L PLASTIC w/ HNO_3

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-11D

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310

Field Crew:

Date: 8/3/09 Project #: 388641

Well Depth (ft.): 33.6' (soft bottom)
DTW (ft.): 10.62
Water Column (ft.): 22.98
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 15
Depth of Screen (ft.): 20-30' BTS

Purge Methodology: Grundfos Low flow

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. (Surface) (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1415	11.28	350	—	7.44	15.61	4.12	-155	14.1	34	clear/no odor
1 VOL.	1420	11.30	325	0.25	7.41	15.49	4.13	-161	9.01	20	clear/no odor
2 VOL.	1425	11.31	325	0.6	7.39	15.61	4.14	-164	7.73	17	clear/no odor
3 VOL.	1430	11.31	310	1.0	7.37	15.76	4.14	-167	6.90	14	clear/no odor
4 VOL.	1435	11.31	300	1.5	7.35	16.43	4.15	-171	5.88	12	clear/no odor
5 VOL.	1440	11.31	300	2.0	7.36	16.93	4.12	-177	0.95	12	clear/no odor
6 VOL.	1445	11.29	310	2.3	7.38	16.57	4.14	-145	1.27	15	clear/no odor
7 VOL.	1450	11.29	310	2.6	7.36	16.37	4.13	-156	1.30	13	clear/no odor
8 VOL.	1455	11.29	310	2.9	7.35	16.30	4.14	-161	0.97	12	clear/no odor
9 VOL.	1500	11.29	300	3.3	7.35	16.30	4.14	-167	0.91	9.2	clear/no odor
10 VOL.	1505	11.28	300	3.7	7.35	16.23	4.14	-172	0.78	8.9	clear/no odor
~~Post Purge~~	1510	11.28	300	3.9	7.34	16.14	4.14	-175	0.77	7.9	clear/no odor

Remarks: Pump Intake Depth: ~35' TOIC Control Box Setting (Hz): 66.60 Development: Sampling: (Sample at 100-250 ml/min) 64.9

1515	11.28	300	4.3	7.34	16.09	4.15	-177	0.71	7.7	clear/no odor/black color
1520	SAMPLE									

SAMPLING

Depth to Water Before Sampling: 11.28
Sample Methodology: Grundfos Low Flow
Sample Name: MW-11D-3 QC Sample: N/A
Sample Date/Time: 8/3/09 / 15:20
Sampler / Signature: MH / [signature]
Filtered Metals Collected: Y / N Filter Size: N/A
Sample Observations: Clear, no odor, Purge water has vy dk grey / black tint
Parameters: VOCs, SVOCs, PCBs, Pesticides, Metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-11D
Field Crew: Lisa La Fortune
Well Depth (ft.): 33 48
DTW (ft.): 10·25
Water Column (ft.): 23 23
Well Diameter (in.): 4"
Gal. per ft.: 0·653
Well Volume (gal.): 15 17
Depth of Screen (ft.): 20-30 BGS

Purge Methodology: Low flow w/ Grundfos pump

Water Quality Meter: Horiba U-22 w/ flow cell

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: 06/09/09 **Project #:** 388641

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Turb Lamotte Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	945	10·13	500	0·5	7·06	15·37	3·90	-100	3·08	34·8	15 Lt green brown/foul
1 VOL.	950	11·32	250	0·25	7·11	15·43	3·90	-107	2·54	33·4	14 Lt green brown/foul
2 VOL.	955	11·32	250	1·0	7·12	15·61	3·90	-110	2·29	33·9	11 " " " / "
3 VOL.	1000	11·32	250	1·25	7·14	15·82	3·90	-114	2·05	32·7	0 " " " / "
4 VOL.	1005	11·33	250	1·6	7·17	15·99	3·92	-120	1·09	26·1	34 " " " / "
5 VOL.	1010	11·31	250	1·9	7·17	16·05	3·92	-121	1·06	28·4	29 " " " / "
6 VOL.	1015	11·31	250	2·3	7·18	16·22	3·90	-126	0·88	18·8	29 Lt gran / foul
7 VOL.	1020	11·31	250	2·6	7·18	16·23	3·90	-127	0·85	17·3	0 Lt green / foul
8 VOL.	1025	11·31	250	3·0	—	—	—	—	—	—	0 " " / "
9 VOL.		Battery died on Horiba - Dave Reamer approved sampling									
10 VOL.	1040	Post purge readings will not be taken except for NTU 45·4									
Post-Purge		Finish collecting sample. 3·5 gal purged total.									

Remarks: Pump Intake Depth: 32 ft

Control Box Setting (Hz): Development: 74·25 @ 945, 68·19 @ 950

Sampling: (Sample at 100-250 ml/min) 250 ml/min

SAMPLING

Depth to Water Before Sampling: 11·31 ft
Sample Methodology: Low flow
Sample Name: MW-11D-3 QC Sample: No
Sample Date/Time: 06/09/09 / 10 30 am
Sampler / Signature: LISA LA FORTUNE /
Filtered Metals Collected: Y / N Filter Size: 0·45 mm
Sample Observations: Lt green / foul odor
Parameters: DISSOLVED METALS 1 - 1L PLASTIC w/ MnO_2

Rvision No. 1
Date: August 2007

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-12S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: Graham Sharkey	Date: June 2, 2009 Project #: 388641

Well Depth (ft.): 17.10'
DTW (ft.): 6.30'
Water Column (ft.): 10.80'
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 7.05 gallons
Depth of Screen (ft.): ~~3~~ 2-14' BGS

Purge Methodology: Low Flow

Water Quality Meter: Horiba ~~U-22~~ U52 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1005	6.77	550	1.0	8.22	13.62	2.55	-299	8.98	98.7	Dark turbid color
1 VOL.	1010	6.67	200	1.6	8.23	14.72	2.53	-297	2.25	83.2	w/ an odor
2 VOL.	1015	6.49		2.0	8.24	15.54	2.56	-305	2.02	75.6	
3 VOL.	1020	6.40		2.5	8.39	15.29	2.56	-323	2.95	70.6	- Discover a rainbow
4 VOL.	1025	6.40		3.0	8.54	15.41	2.57	-339	2.49	53.5	colored sheen on water
5 VOL.	1030	6.40		3.4	8.83	15.79	2.57	-352	2.16	46.9	
6 VOL.	1035	6.40		3.9	9.18	15.71	2.56	-360	1.96	42.1	
7 VOL.	1040	6.40		4.2	9.47	15.72	2.55	-369	1.77	37.7	
8 VOL.	1045	6.40		4.6	9.89	15.81	2.55	-378	1.48	31.0	
9 VOL.	1050	6.40		4.9	10.00	16.04	2.54	-382	1.42	29.6	
10 VOL.	1055	6.40		5.3	10.14	16.45	2.54	-387	1.29	26.2	
~~Post Purge~~	1100	6.40	↓	5.7	10.26	16.25	2.56	-382	1.38	26.7	

Remarks: Pump Intake Depth: 15.60'

Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

Continued →

1105	6.40	200	6.0	10.41	16.57	2.57	-390	1.28	22.3	
1110	6.40		6.5	10.53	15.79	2.57	-392	1.23	22.4	
1115	6.40		6.9	10.60	15.70	2.56	-393	1.18	21.4	
1120	6.40	↓	7.4	10.66	15.66	2.56	-394	1.10	21.4	
1125	SAM	PLE								

SAMPLING

Depth to Water Before Sampling: 6.40
Sample Methodology: Low Flow
Sample Name: MW-12S-3 QC Sample: None
Sample Date/Time: June 2, 2009 @ 1125
Sampler / Signature: Graham Sharkey / Graham Sharkey
Filtered Metals Collected: Y / (N) Filter Size: NA
Sample Observations:
Parameters: VOC, SVOC, Pesticides, PCB's, & Metals

10.8
.653
.324
.5400
64800
7.0524

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-135	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: LISA LA FONTONE/DAVE REAMER	Date: 06/11/09 Project #: 388641

Well Depth (ft.): – NM – Did not
DTW (ft.): – want to disturb
Water Column (ft.): – the LNAPL
Well Diameter (in.): 4 while purging
Gal. per ft.: 0.653
Well Volume (gal.): –
Depth of Screen (ft.): 2-14' BGS

Purge Methodology: LOW FLOW W/PERISTALTIC PUMP

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4	.653	8"	2.611

Field Parameters

	Time	DTP ~~DTW~~ (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	LAMOTTE Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1600	NM	300	NM	NM	NM	NM	NM	NM	NM	1.71 CLEAR, GLOBULES OIL-LIKE FOUL
1 VOL.	1620	NM	300	NM	NM	NM	NM	NM	NM	NM	1.72 " / NO GLOBULES / "
2 VOL.	1630	4.39	300	3.3	7.15	14.35	0.816	-139	1.81	0.0	2.68 CLEAR, FOUL
3 VOL.	1635	NM	300	3.7	7.15	14.21	0.816	-148	1.48	0.0	1.58 " , FOUL
4 VOL.	1640	NM	300	4.1	7.16	14.13	0.816	-155	1.34	0.0	1.58 " , "
5 VOL.	1650	NM	300	4.4	7.19	14.16	0.818	-165	1.50	2.7	2.51 " , "
6 VOL.	1655	NM	300	4.8	7.19	14.17	0.817	-168	1.34	3.5	2.09 " / "
7 VOL.	1700	NM	300	5.2	7.20	14.18	0.818	-172	1.48	0.7	1.54 " SLIGHT ORGANIC ODOR.
8 VOL.	1702	COLLECT	SAMPLE.								3.66
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: Control Box Setting (Hz): Development: NA Sampling: (Sample at 100-250 ml/min)

SAMPLE TUBING PLACED THROUGH FOIL SEALED 1" PVC PIPE BOTTOM.
1627 Hooked up pump to Horiba
SOME FINE BLACK PARTICLES NOTED INITIALLY UPON STARTING PUMP.
2.5 FEET NAPL

SAMPLING

Depth to Water Before Sampling: NM – No draw down visually observed
Sample Methodology: LOW FLOW W/PERISTALTIC PUMP
Sample Name: MW-135-3 QC Sample: NO
Sample Date/Time: 06/11/09
Sampler / Signature: DAVE REAMER
Filtered Metals Collected: Y / (N) Filter Size: NA
Sample Observations: CLEAR, SLIGHT ORGANIC ODOR
Parameters: TCL VOCs, SVOCs, PCBs, PESTICIDES, TAL METALS.
3-40 ml VOAs 2-1L AMBER EACH 1-1L PLASTIC

OC

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-13D
Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: G Shathey
Date: June 2, 2009 Project #: 388641

Well Depth (ft.): 32.45
DTW (ft.): 10.82
Water Column (ft.): 21.63'
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.):
Depth of Screen (ft.): 20-30' BGS

Purge Methodology: Low Flow

Water Quality Meter: Horiba ~~U-22~~ w/ flow cell U52

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1215	11.01	300	0.2	7.07	18.03	4.86	-144	3.34	12.1	Clear yellow w/
1 VOL.	1220	10.90	↓	0.5	6.99	17.90	5.19	-167	1.76	10.6	a highly organic odor
2 VOL.	1225	10.97		1.0	6.97	17.90	5.19	-171	1.40	9.1	
3 VOL.	1230	10.99		1.5	6.96	19.17	5.13	-178	1.16	5.9	
4 VOL.	1235	11.02		1.9	6.95	19.64	5.12	-177	1.00	5.2	
5 VOL.	1240	11.02		2.3	6.95	20.09	5.11	-177	0.88	4.9	
6 VOL.	1245	11.02		2.6	6.95	20.22	5.04	-175	0.95	4.4	
7 VOL.	1250	11.02	↓	3.0	6.94	20.76	5.07	-179	0.87	3.9	
8 VOL.	1255	SAMPLE									
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 31' BTIC
Control Box Setting (Hz): Development: 70.0HZ
Sampling: (Sample at 100-250 ml/min) 300

SAMPLING

Depth to Water Before Sampling: 11.02'
Sample Methodology: Low Flow
Sample Name: MW-13D-3
QC Sample: NONE
Sample Date/Time: June 2, 2009 @ 1255
Sampler / Signature: Graham Shathey / Graham Shathey
Filtered Metals Collected: Y (N) Filter Size: N/A
Sample Observations:
Parameters: VOC, SVOC, Pesticides, PCB, & Metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-14S
Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: G Sherkey
Date: 6-2-09 Project #: 388641

Well Depth (ft.): 19'
DTW (ft.): 5.60'
Water Column (ft.): 13.40
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 8.75 gallons
Depth of Screen (ft.): 2-16' BGS

Purge Methodology: Low Flow

Water Quality Meter: Horiba U-22 w/ flow cell U52

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	0840	6.05	150	0.3	7.04	16.04	0.759	-143	7.68	45.1	Slight Turbed color
1 VOL.	0845	6.10	150	0.8	7.08	17.00	0.753	-156	5.92	52.4	w/ an odor
2 VOL.	0850	6.10		1.0	7.11	17.11	0.768	-164	5.43	41.0	
3 VOL.	0855	6.30		1.2	7.13	17.14	0.775	-174	5.06	30.2	
4 VOL.	0900	6.35		1.4	7.14	17.14	0.765	-184	4.71	29.2	
5 VOL.	0905	6.35		1.6	7.15	16.83	0.767	-193	4.50	24.5	
6 VOL.	0910	6.35		2.0	7.15	16.44	0.771	-200	4.25	17.6	
7 VOL.	0915	6.37		2.2	7.15	16.99	0.765	-207	3.95	13.0	
8 VOL.	0920	6.37		2.5	7.15	16.46	0.777	-205	3.89	11.5	
9 VOL.	0925	6.38		2.8	7.15	16.91	0.776	-214	3.70	10.6	
10 VOL.	0930	6.38	↓	3.0	7.15	16.62	0.779	-211	3.59	9.5	
Post-Purge	0940	SAMPLE									

Remarks: Pump Intake Depth: 17.5' BTIC
Control Box Setting (Hz): Development: 58.1 HZ
Sampling: (Sample at 100-250 ml/min) 150 ml/min

SAMPLING

Depth to Water Before Sampling: 6.38'
Sample Methodology: Low Flow
Sample Name: MW-14S-3
QC Sample: None
Sample Date/Time: June 2, 2009 @
Sampler / Signature: Graham Sherkey / Graham Sherkey
Filtered Metals Collected: Y (N) Filter Size: NA
Sample Observations:
Parameters: VOC, SVOC, Pesticides, PCB's, & Metals

13.4
.653
.402
6700
80400
8.7502

11

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-15S

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310

Field Crew: G Sharkey / A Harkerode

Date: June 3, 2009 Project #: 388641

Well Depth (ft.): 14.60

DTW (ft.): 6.23

Water Column (ft.): 8.37

Well Diameter (in.): 4"

Gal. per ft.: 0.653

Well Volume (gal.): 5.46

Depth of Screen (ft.): 2-12' BGS

Purge Methodology: Low Flow

Water Quality Meter: Horiba ~~U-22~~ w/ flow cell U-52

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1110	6.27	200	0.3	7.46	14.67	1.55	-139	~~9.15~~ 9.4	~~9.15~~ 50.4 (G3)	Turbid clear color
1 VOL.	1115	6.30	|	0.8	7.44	15.11	154	-146	1.75	9.8	w/ some smell
2 VOL.	1120	6.30	|	1.3	7.43	14.91	1.53	-147	1.41	7.5	
3 VOL.	1125	6.30	|	2.0	7.41	14.82	1.52	-148	1.21	5.4	
4 VOL.	1130	6.30	300	2.8	7.41	14.71	1.51	-148	1.08	5.6	
5 VOL.	1135	6.30	|	3.5	7.40	14.65	1.51	-148	0.97	5.1	
6 VOL.	1140	6.30	|	4.0	7.39	14.55	1.49	-148	0.91	4.2	
7 VOL.	1145	6.30	|	4.5	7.39	14.84	1.49	-148	0.88	4.1	
8 VOL.	1147	SAMPLE									
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 13.16' BTIC

Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SAMPLING

Depth to Water Before Sampling: 6.30

Sample Methodology: Low Flow

Sample Name: MW-15S-3 QC Sample: None

Sample Date/Time: June 3, 2009 @ 1147

Sampler / Signature: Graham Sharkey / Graham Sharkey

Filtered Metals Collected: Y / N Filter Size: NA

Sample Observations:

Parameters: VOC, SVOC, PCB, Pesticides, & Metals

8.37
.653
2411
41850
502200
54.6461

Rvision No. 1
Date: August 2007

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-15D

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310

Field Crew:

Date: 6/3/09 Project #: 388641

Well Depth (ft.): 33.50'
DTW (ft.): 9.65'
Water Column (ft.): 23.85
Well Diameter (in.): 4"
Gal. per ft.: 0.653
Well Volume (gal.): 15.6
Depth of Screen (ft.): 20-30' BGS

Purge Methodology: Grundfos pump Low Flow

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1110	12.0	500	—	7.03	15.34	5.74	-111	0.68	8.9	clear/oil odor
1 VOL.	1115	12.09	290	0.75	7.01	15.93	5.54	-105	0.00	3.82	clear/oil odor
2 VOL.	1120	12.08	290	1.2	7.00	15.86	5.53	-103	0.00	3.26	clear/oil odor
3 VOL.	1125	12.08	290	1.7	6.99	15.84	5.38	-99	0.00	2.01	clear/oil odor
4 VOL.	1130	12.08	290	2.2	6.98	15.76	5.19	-96	0.00	1.52	clear/oil odor
5 VOL.	1135	12.08	290	2.7	6.97	15.83	5.09	-94	0.00	1.65	clear/oil odor
6 VOL.	1140	12.09	290	3.1	6.95	15.85	5.01	-91	0.00	1.71	clear/oil odor
7 VOL.	1145	12.09	290	3.7	6.95	15.09	4.98	-89	0.00	1.73	clear/oil odor
8 VOL.	1150	SAMPLE									
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 32' BGS (DH) BTIC

Control Box Setting (Hz): 72 Hz

Development:

Sampling: (Sample at 100-250 ml/min) 69 Hz

SAMPLING

Depth to Water Before Sampling: 12.08

Sample Methodology: Grundfos pump

Sample Name:

QC Sample: N/A

Sample Date/Time: 6/3/09 / 11:50

Sampler / Signature: [illegible]

Filtered Metals Collected: Y / N Filter Size:

Sample Observations: clear / slight oil odor - volatilization / effervescence occurs while filling VOA vials - causes very small heads on vials that can't be removed

Parameters: VOCs, SVOCs, PCBs, Pests, Metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-175	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: B. Moore	Date: 6/4/09 Project #: 388641

Well Depth (ft.): 18.5
DTW (ft.): 5.35
Water Column (ft.): 7.65
Well Diameter (in.): 4
Gal. per ft.: 0.653
Well Volume (gal.): 4.945
Depth of Screen (ft.): 3-13

Purge Methodology: Low flow w/ 2" Grundfos

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
(4")	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1200	5.50	250		6.94	15.69	0.945	-68	10.24	25	CLEAR / NO ODOR
1 VOL.	1205	5.78	250		6.85	16.04	0.952	-81	5.08	26	" "
2 VOL.	1210	5.84	250		6.81	15.94	0.932	-85	7.16	21	" "
3 VOL.	1215	5.90	250		6.80	16.62	0.938	-88	6.31	17	" "
4 VOL.	1220	6.07	250		6.79	17.06	0.927	-92	5.62	17	" "
5 VOL.	1225	6.16	250		6.78	17.35	0.907	-95	5.10	20	" "
6 VOL.	1230	6.27	250		6.77	17.51	0.909	-99	4.86	20	" "
7 VOL.	1235	6.36	250		6.76	17.74	0.905	-102	4.55	18	" "
8 VOL.	1240	6.45	250		6.75	17.67	0.903	-104	4.23	18	" "
9 VOL.	1245	6.54	250		6.75	17.71	0.900	-106	4.11	17	" "
10 VOL.	1250	6.60	→ collect sample								
Post-Purge	1310	9.73	250		6.79	16.29	0.918	-75	1.01	15	

Remarks: Pump Intake Depth: 10.5 Control Box Setting (Hz): Development: 64.1 Sampling: (Sample at 100-250 ml/min)

SAMPLING

Depth to Water Before Sampling: 6.0L
Sample Methodology: LO Flow
Sample Name: MW-175-3 QC Sample:
Sample Date/Time: 6/4/09 1250
Sampler / Signature: B. Moore
Filtered Metals Collected: Y (N) Filter Size:
Sample Observations: CLEAR / NO ODOR
Parameters: TCL ORGANICS

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-185	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: B. Moore	Date: 6/4/09 Project #: 388641

Well Depth (ft.): 15.45
DTW (ft.): 7.25
Water Column (ft.): 8.2
Well Diameter (in.): 2
Gal. per ft.: 0.163 1.53
Well Volume (gal.):
Depth of Screen (ft.): 2-12' BGS

Purge Methodology: Low-Flow w/ 2" Grundfos
Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	920	8.77	300		7.40	15.00	1.32	-130	9.69	250	GRAYISH / some silt
1 VOL.	925	8.82	300		7.49	15.06	1.44	-167	8.33	260	" "
2 VOL.	930	9.41	250		7.59	15.15	1.59	-185	7.20	160	" "
3 VOL.	935	10.10	200		7.67	15.35	1.68	-198	6.13	140	" "
4 VOL.	940	10.50	200		7.71	15.60	1.73	-203	5.27	130	" "
5 VOL.	945	11.10	200		7.68	15.75	1.64	-203	4.77	240	CLEARING / SILTY GRAY
6 VOL.	950	12.00	200		7.66	15.83	1.68	-194	4.19	230	" "
7 VOL.	955	11.91	200		7.72	16.14	1.72	-202	3.59	110	
8 VOL.	1000	12.05	200		7.75	16.24	1.74	-206	3.24	70	
9 VOL.	1005	12.10	200		7.77	16.31	1.73	-209	2.84	55	CLEARING
10 VOL.	1010	12.11	200		7.77	16.44	1.73	-210	2.56	45	
Post-Purge	1015	12.05	200		7.77	16.50	1.73	-211	2.32	50	

Remarks: Pump Intake Depth: 13.50 Control Box Setting (Hz): 5.4 Development: Sampling: (Sample at 100-250 ml/min)

(*) DTW DIFFICULT TO DETERMINE DUE TO GROUNDWATER CASCADING DOWN FROM UPPER PORTIONS OF SCREEN

SAMPLING

Depth to Water Before Sampling: 12.05
Sample Methodology: Low Flow
Sample Name: MW-185 3403 QC Sample:
Sample Date/Time: 6/4 1030
Sampler / Signature: William Moore
Filtered Metals Collected: Y (N) Filter Size: N/A
Sample Observations:
Parameters: TCL - Full, TAL - Metals

PAGE 2 of

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-[illegible] 185	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: B. H. Moore	Date: Project #: 388641

Well Depth (ft.):
DTW (ft.):
Water Column (ft.):
Well Diameter (in.):
Gal. per ft.:
Well Volume (gal.):
Depth of Screen (ft.):

See PAGE 1

Purge Methodology:

Water Quality Meter:
Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1020	12.00	200		7.78	16.71	1.72	-212	2.20	45	
1 VOL.	1025	12.15	200		7.78	16.71	1.72	-212	2.17	45	
2 VOL.	1030 → Collect Sample										
3 VOL.											
4 VOL.											
5 VOL.											
6 VOL.											
7 VOL.											
8 VOL.											
9 VOL.											
10 VOL.											
Post-Purge	1035	12.25	200	[illegible]	7.82	14.45	1.75	-165	2.95	55	

Remarks: Pump Intake Depth: Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SEE PAGE 1

SAMPLING

Depth to Water Before Sampling:
Sample Methodology:
Sample Name: QC Sample:
Sample Date/Time:
Sampler / Signature:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters:

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-19S
Field Crew: B. MOORE
Well Depth (ft.): 32.4
DTW (ft.): 27.50
Water Column (ft.): 4.9
Well Diameter (in.): 2
Gal. per ft.: 0.163
Well Volume (gal.): 0.80
Depth of Screen (ft.): 19-29' BGS

Purge Methodology: Low Flow

Water Quality Meter: Horiba U-22 w/ flow cell

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: 6/4/09 Project #: 388641

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1435	28.06	300		7.23	18.65	3.75	-157	2.79	MAX	GREENISH BROWN / slight petroleum odor
1 VOL.	1440	28.18	250		7.24	18.77	3.50	-144	1.83	MAX	
2 VOL.	1445	28.34	250		7.24	19.71	3.51	-153	1.33	MAX	
3 VOL.	1450	28.38	250		7.24	16.64	3.49	-156	1.16	700	
4 VOL.	1455	28.40	250		7.24	20.60	3.52	-160	0.94	210	CLEARING
5 VOL.	1500	28.45	250		7.24	20.35	3.51	-161	0.85	110	
6 VOL.	1505	28.49	250		7.24	20.36	3.51	-161	0.76	70	
7 VOL.	1510	28.50	250		7.24	20.34	3.50	-161	0.69	45	
8 VOL.	1515	28.52	250		7.24	20.36	3.50	-162	0.65	37	
9 VOL.	1520	28.52	250		7.24	20.36	3.49	-162	0.61	46	
10 VOL.	1525	28.52	250		7.24	20.42	3.49	-162	0.57	21	
Post-Purge	1530	28.52	250		7.24	20.45	3.49	-162	0.55	20	

Remarks: Pump Intake Depth: 30.5 Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

~~[illegible]~~

~~APPARENT DRAWDOWN~~

SAMPLING

Depth to Water Before Sampling: 28.52
Sample Methodology: Low Flow
Sample Name: MW-19S-3 QC Sample:
Sample Date/Time: 6/4/09 1540
Sampler / Signature: B. MOORE
Filtered Metals Collected: Y / N Filter Size:
Sample Observations: Slight petroleum odor. Highly turbid at first stabilized up
Parameters: TCL ORGANIC, TAL metals

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-19S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: B. Moore	Date: 6/1/00 Project #: 388641

Well Depth (ft.):
DTW (ft.):
Water Column (ft.): SEPAGE
Well Diameter (in.):
Gal. per ft.:
Well Volume (gal.):
Depth of Screen (ft.):

Purge Methodology:

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1535	28.32	250		7.24	20.17	3.19	-162	0.53	19	
1 VOL.	1540	→	COLLECT	SAMPLE							
2 VOL.	1555	29.11	"		7.30	19.25	3.19	-125	0.18	110	
3 VOL.											
4 VOL.											
5 VOL.											
6 VOL.											
7 VOL.											
8 VOL.											
9 VOL.											
10 VOL.											
Post-Purge	→ POST PURGE										

Remarks: Pump Intake Depth: Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SAMPLING

Depth to Water Before Sampling:
Sample Methodology:
Sample Name: QC Sample:
Sample Date/Time:
Sampler / Signature:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters:

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

PAGE 1 of 2

Well Number: MW-205	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: B. Moore	Date: 6/5/09 Project #: 388641

Well Depth (ft.): 30.40
DTW (ft.): 24.21
Water Column (ft.): 6.18
Well Diameter (in.): 2
Gal. per ft.: 0.163
Well Volume (gal.): 1.01
Depth of Screen (ft.): 17'-27' BGS

Purge Methodology: Low Flow

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	0850	25.56	200		7.11	15.85	3.62	-121	1.49	270	Slightly Orange slight odor
1 VOL.	0855	25.62	250		7.27	16.28	3.71	-111	1.45	600	GRAY. Slight ODOR
2 VOL.	0900	25.62	250		7.27	17.27	3.64	-131	1.04	500	
3 VOL.	0905	25.65	250		7.28	17.42	3.65	-140	1.00	250	
4 VOL.	0910	25.66	250		7.29	17.89	3.65	-143	0.95	210	
5 VOL.	0915	25.68	250		7.30	17.91	3.67	-146	0.95	130	CLEAR
6 VOL.	0920	25.70	250		7.30	17.85	3.66	-148	0.94	70	
7 VOL.	0925	25.72	250		7.30	17.93	3.67	-149	0.86	55	
8 VOL.	0930	25.74	250		7.30	17.96	3.65	-151	0.79	36	
9 VOL.	0935	25.76	250		7.30	17.84	3.65	-152	0.72	29	
10 VOL.	0940	25.78	250		7.31	17.94	3.65	-154	0.67	24	
Post-Purge	0945	25.80	250		7.30	17.79	3.66	-155	0.62	24	

Remarks: Pump Intake Depth: 225 - BTIC ~12g

Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SAMPLING

Depth to Water Before Sampling: 25.84
Sample Methodology: Low Flow
Sample Name: MW-205-3 QC Sample: Duplicate
Sample Date/Time: 6/5/09 10:00
Sampler / Signature: B. Moore
Filtered Metals Collected: Y/N Filter Size:
Sample Observations: Slight sheen and purge water surface. Slight odor
Parameters:

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-2W
Field Crew: B. Moore
Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: 6/5/08 Project #: 388641

Well Depth (ft.):
DTW (ft.):
Water Column (ft.): SEE PAGE 1
Well Diameter (in.):
Gal. per ft.:
Well Volume (gal.):
Depth of Screen (ft.):

Purge Methodology:

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10 %	+/- 10%	
Initial	0950	25.1	200		7.31	17.74	3.65	-156	0.59	21	
1 VOL.	0955	25.71	200		7.31	17.72	3.60	-156	0.58	22	-
2 VOL.	1000	25.85	→		Collect sample						
3 VOL.											
4 VOL.											
5 VOL.											
6 VOL.											
7 VOL.											
8 VOL.											
9 VOL.											
10 VOL.											
Post-Purge	1020	26.19			7.37	15.68	3.65	-99	2.11	29	

Remarks: Pump Intake Depth: Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SEE PAGE 1

SAMPLING

Depth to Water Before Sampling:
Sample Methodology:
Sample Name: QC Sample:
Sample Date/Time:
Sampler / Signature:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters:

PAGE 1 of 2

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-21S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: B. MOORE	Date: 6/5/09 Project #: 388641
Well Depth (ft.): 9.21	Purge Methodology: Low Flow
DTW (ft.): 4.01	
Water Column (ft.): 5.2	
Well Diameter (in.): 0.163	
Gal. per ft.: 0.167	Water Quality Meter:
Well Volume (gal.): 0.85	Horiba U-22 w/ flow cell
Depth of Screen (ft.): 3-9' BGS	

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1215	4.02	250		10.38	14.38	2.50	-131	1.79	98.2	Brown [illegible]
1 VOL.	1220	4.02	250		9.82	14.45	1.99	-348	1.21	84.1	
2 VOL.	1225	4.02	250		10.40	14.92	3.32	-205	1.09	700	
3 VOL.	1230	4.02	250		10.05	14.70	2.12	-344	0.91	155	Clearing
4 VOL.	1235	No [illegible]					Pump Shut off				
5 VOL.	[illegible]	Pump	[illegible]								
6 VOL.	1305	4.02	250		9.48	14.62	1.78	-123	1.44	29.5	Clear
7 VOL.	1310	4.02	250		9.51	14.51	1.72	-236	1.00	23.7	
8 VOL.	1315	4.02	250		9.42	14.61	1.72	-307	0.77	2[illegible]	
9 VOL.	1320	4.02	250		9.46	14.73	1.75	-331	0.75	22	
10 VOL.	1325	4.02	250		9.46	14.85	1.78	-339	0.67	21.5	
Post-Purge	1330	4.02	250		9.46	14.72	1.77	-370	0.67	20.5	

Remarks: Pump Intake Depth: 7.5' BTIC Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

Note: Pump Shut off During Sampling

SAMPLING

Depth to Water Before Sampling: 4.02

Sample Methodology: Low Flow

Sample Name: MW-21S-3 QC Sample: MS/MSD

Sample Date/Time: 6/5/09 1350

Sampler / Signature: B. Moore [signature]

Filtered Metals Collected: Y / N Filter Size:

Sample Observations: Brown Suspended Solids

Parameters: TCL - Full, TAL - Metals

PAGE 2 of 2

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-215
Field Crew: B. Moore

Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date:
Project #: 88641

Well Depth (ft.):
DTW (ft.): See
Water Column (ft.): PAGE 1
Well Diameter (in.):
Gal. per ft.:
Well Volume (gal.):
Depth of Screen (ft.):

Purge Methodology:

Water Quality Meter:
Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1335	4.02	250		9.45	14.71	1.76	-341	0.69	15.8	
1 VOL.	1340	4.02	250		9.44	14.78	1.76	-344	0.66	20.2	
2 VOL.	1345	4.02	250		9.45	14.61	1.77	-342	0.64	19.5	
3 VOL.	1350	4.02	Collect Sample.								
4 VOL.											
5 VOL.											
6 VOL.											
7 VOL.											
8 VOL.											
9 VOL.											
10 VOL.											
Post-Purge	1425	4.02	250		9.55	11.10	2.05	[illegible]	[illegible]	80	

Remarks: Pump Intake Depth: Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

SAMPLING

Depth to Water Before Sampling:
Sample Methodology:
Sample Name: QC Sample:
Sample Date/Time:
Sampler / Signature:
Filtered Metals Collected: Y / N Filter Size:
Sample Observations:
Parameters:

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-23S
Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: LISA LA FORTUNE
Date: 06/11/09 Project #: 388641

Well Depth (ft.): 8.54
DTW (ft.): 0.56
Water Column (ft.): 7.98
Well Diameter (in.): 2
Gal. per ft.: 0.163
Well Volume (gal.): 1.3
Depth of Screen (ft.): 3-9 BGS

Purge Methodology: LOW FLOW W/ GRUNDFOS PUMP

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1	"	+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	0850	0.95	200	0.2	7.07	18.2	1.06	-75	8.03	380	39.9 BLACK / FOUL
1 VOL.	0855	1.10	200	0.4	7.25	18.76	1.03	-127	6.97	742	58.9 " / "
2 VOL.	0900	1.10	200	0.7	7.31	18.97	1.02	-141	6.36	421	74.7 " / "
3 VOL.	0905	1.10	200	1.0	7.35	19.16	1.01	-146	5.96	233	53.0 CLOUDY / FOUL
4 VOL.	0910	1.10	200	1.2	7.37	19.19	1.01	-151	5.49	148	32.2 " / "
5 VOL.	0915	1.10	200	1.4	7.39	19.21	1.00	-153	5.03	109	29.0 CLEAR / FOUL
6 VOL.	0920	1.10	200	1.6	7.40	19.25	1.06	-155	4.69	76.7	17.1 CLEAR / "
7 VOL.	0925	1.10	200	1.8	7.42	19.30	1.05	-157	4.22	51.7	10.68 " / "
8 VOL.	0930	1.10	200	2.0	7.42	19.29	1.05	-157	4.00	35.5	9.00 " / "
9 VOL.	0935	1.10	200	2.3	7.43	19.28	1.02	-158	3.60	56.9	12.3 " / "
SAMPLE TIME 0942 → 10 VOL.	0940	1.10	200	2.6	7.44	19.22	1.03	-159	3.35	28.1	10.38 " / "
Post-Purge	0957	1.10	200	3.0	7.36	18.83	0.991	-81	1.45	120	6.50 CLEAR / FOUL

Remarks: Pump Intake Depth: 7.0' BTIC Control Box Setting (Hz): Development: 37.9 Sampling: (Sample at 100-250 ml/min) 200

RAINING, WELL FLOODED. BUBBLES ON SURFACE OF WATER IN CASING.

SAMPLING

Depth to Water Before Sampling: 1.10 ft
Sample Methodology: LOW FLOW W/ GRUNDFOS PUMP
Sample Name: MW-23S-3 QC Sample: NO
Sample Date/Time: 06/11/09 / 0942
Sampler / Signature: LISA LA FORTUNE / [signature]
Filtered Metals Collected: Y / N Filter Size: NA
Sample Observations: CLEAR / FOUL ; VERY FINE BLACK PARTICLES UPON SETTLING
Parameters: TCL VOC, SVOC, PCB, PESTICIDES, TAL METALS

3-40ml VOA W/HCL 1:1 — 2 - 1L AMBER EACH — 1 - 1L PLASTIC W/HNO3

OC

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-24S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: LISA LA FORTUNE	Date: 06/09/09 Project #: 388641
Well Depth (ft.): 8.65	Purge Methodology: LOW FLOW W/ GRUNDFOS PUMP
DTW (ft.): 1.37	
Water Column (ft.): 7.28	
Well Diameter (in.): 2	
Gal. per ft.: 0.163	Water Quality Meter: Horiba U-22 w/ flow cell
Well Volume (gal.): 1.186	
Depth of Screen (ft.):	

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	~~2.34 CLEAR/NO ODOR~~ (LF) (LF)
Initial	1455	1.37	350	0.3	9.21	20.81	0.414	-19	2.40	167	2.31 CLEAR/NO ODOR
1 VOL.	1500	3.60	300	0.5	9.16	20.71	0.416	-35	2.03	161	2.24 CLEAR/NO ODOR
2 VOL.	1505	3.49	200	0.6	9.24	21.21	0.417	-69	1.67	153	2.10 " / NO ODOR
3 VOL.	1510	3.52	200	0.7	9.29	21.66	0.422	-107	2.91	106	1.87 " / NO ODOR
4 VOL.	1515	3.51	100	0.9	9.31	21.98	0.424	-121	1.82	10	1.29 " / " "
5 VOL.	1520	3.51	100	1.0	9.35	22.26	0.424	-130	0.97	95.3	0.42 " / " "
6 VOL.	1525	3.51	125	1.2	9.36	22.47	0.425	-135	0.88	87.4	0.29 " / " "
7 VOL.	1530	3.51	125	1.4	9.35	22.79	0.427	-142	0.81	68.6	0.25 " / " "
8 VOL.	1535	3.49	125	1.6	9.35	22.97	0.430	-145	0.70	62.9	0.14 " / " "
SAMPLE TIME 9 VOL.	1540	START	COLLECTING		SAMPLE						
10 VOL.	1605	FINISH	COLLECT		SAMPLES						
Post-Purge	1620	2.96	200	2.3	7.41	20.72	0.700	-152	1.25	36.3	0.0 CLEAR/NO ODOR

Remarks: Pump Intake Depth: 7 ft BTOC Control Box Setting (Hz): 46.08 @ 1455 Development: Sampling: (Sample at 100-250 ml/min) 125 ml/min

6.5 ft solid bump
Soil around PVC casing was saturated with water and the water in the soil formed bubbles as the grundfos pump was lowered in the well.

SAMPLING

Depth to Water Before Sampling:	3.49
Sample Methodology:	LOW FLOW USING GRUNDFOS PUMP
Sample Name:	MW-24S-3 QC Sample: NO
Sample Date/Time:	6/09/09 / 1545
Sampler / Signature:	LISA LA FORTUNE / [signature]
Filtered Metals Collected:	Y / N Filter Size: NA
Sample Observations:	CLEAR / NO ODOR
Parameters:	TCL VOC (3) 40 ml vial w/HCL, SVOC (2) 1-Amber, PCB (2) 1-Amber, TAL METALS (1) 1-L plastic w/HNO3, PESTICIDES (2) 1-L amber

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-25S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: LISA LA FORTUNE	Date: 06/00/09 Project #: 388641

Well Depth (ft.): 21.4
DTW (ft.): 13.39
Water Column (ft.): 8.01
Well Diameter (in.): 2"
Gal. per ft.: 0.163
Well Volume (gal.): 1.3
Depth of Screen (ft.):

Purge Methodology: Low Flow w/ GRUNDFOS PUMP

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	955	15.28	500	0.3	6.99	15.29	2.44	-136	1.60	0.0	1272 Lt brown/NO ODOR
1 VOL.	1000	15.46	400	0.5	7.17	16.17	2.44	-153	1.20	0.0	874 " / "
2 VOL.	1005	15.45	500	0.8	7.26	16.49	2.44	-161	1.03	738	187 " / "
3 VOL.	1010	15.45	225	1.0	7.28	17.07	2.44	-164	0.92	425	127 " / "
4 VOL.	1015	15.39	200	1.3	7.31	17.46	2.43	-166	0.85	299	898 CLOUDY/NO ODOR
5 VOL.	1020	15.32	300	1.6	7.33	18.04	2.41	-166	1.03	188	52.4 " / "
6 VOL.	1025	15.34	325	2.0	7.32	18.04	2.40	-165	0.76	169	50.0 CLEAR/NO ODOR
7 VOL.	1030	15.17	125	2.2	7.32	18.12	2.39	-165	0.71	152	45 " / NO ODOR
8 VOL.	1035	15.13	125	2.4	7.30	18.36	2.39	-162	0.66	144	81.3 CLOUDY/NO ODOR
9 VOL.	1040	15.13	125	2.5	7.28	19.04	2.37	-162	0.62	272	83.2 CLOUDY/NO ODOR
10 VOL.	1050	16.35	500	4.3	7.24	16.28	2.39	-161	0.47	0.0	1722 BROWN/NO ODOR
Post-Purge	1100	16.15	300	5.0	7.20	16.82	2.39	-161	0.98	778	194 CLOUDY/NO ODOR

Remarks: Pump Intake Depth: 20 ft

Control Box Setting (Hz): Development: Sampling: (Sample at 100-250 ml/min)

88.30 @ 955
89.70 @ 1020
106.0 @ 1032
110.3 @ 1042

At 1018 flow rate dropped to ~100 ml/min
Adjusted control box setting higher

SHEEN IN BUCKET WATER

No flow at 10:32
No flow at 10:41 Adjusted pump.
Very muddy water. Dave Reamer said to continue for ~20-30 min until TURB stabilizes

SAMPLING

Depth to Water Before Sampling: 16.11
Sample Methodology: LOW FLOW USING GRUNDFOS PUMP
Sample Name: MW-25S-3 QC Sample: NO
Sample Date/Time: 06/00/09
Sampler / Signature: LISA LA FORTUNE / [signature]
Filtered Metals Collected: Y / N Filter Size: NA
Sample Observations:

Parameters:	TCL VOCs	SVOC	PESTICIDES	TAL METALS	PCBs
	3-40 ml VOA w/ HCL 1:1	2-1L AMBER	2-1L AMBER	1-1L PLASTIC w/ HNO_3	2-1L AMBER

OC

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-255
Field Crew: LISA CA FORTUNE
Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Date: 06/08/09 Project #: 388641

Well Depth (ft.): 21.4
DTW (ft.): 13.39
Water Column (ft.): 8.01
Well Diameter (in.): 2
Gal. per ft.: 0.163
Well Volume (gal.): 1.3
Depth of Screen (ft.):

Purge Methodology: LOW FLOW USING GRUNDFOS PUMP

Water Quality Meter: Horiba U-22 w/ flow cell

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1105	15.98	300	5.3	7.20	2.38	2.38	-161	0.50	503	99.5 CLOUDY / NO ODOR
1 VOL.	1110	15.89	250	5.6	7.10	2.38	2.38	-159	0.47	362	104.1 " "
2 VOL.	1115	15.91	225	5.8	7.19	2.33	2.33	-131	0.49	151	106.7 " "
3 VOL.	1120	16.08	225	6.0	7.16	2.34	2.34	-136	0.54	142	71.5 CLEAR NO ODOR
4 VOL.	1125	16.08	225	6.2	7.16	2.35	2.35	-135	0.55	131	61.2 " "
5 VOL.	1130	16.11	225	6.4	7.15	2.35	2.35	-135	0.51	126	35.5 " "
6 VOL.	1132	SAMPLE TIME									30.4
POST PURGE 7 VOL.	1147	16.75	225	7.0	7.06	2.27	2.27	-57	1.53	642	188 CLOUDY NO ODOR
8 VOL.									06/09/09		
9 VOL.											
10 VOL.											
Post-Purge											

Remarks: Pump Intake Depth: 20 ft Control Box Setting (Hz): Development: 110.3 Sampling: (Sample at 100-250 ml/min) 225 ml/min

SHEEN OBSERVED IN BUCKET; NO SHEEN IN SAMPLE

SAMPLING

Depth to Water Before Sampling: 16.11 ft
Sample Methodology: LOW FLOW
Sample Name: MW-255-3 QC Sample: NO
Sample Date/Time: 06/08/09 / 1132
Sampler / Signature: LISA CA FORTUNE / [signature]
Filtered Metals Collected: Y / (N) Filter Size: NA
Sample Observations: STARTED CLEAR IN FIRST VOA, THEN WENT CLOUDY LT BROWN
Parameters: TCL VOCs, SVOC, PCB, PESTICIDES, TAL METALS

TCL VOCs	SVOC	PCB	PESTICIDES	TAL METALS
3-40 ml VOA w/ HCL 1:1	2-1L amber	2-1L amber	2-1L	1-1L PLASTIC w/ HNO3

OC

Diamond Head Oil Superfund Site
Low-Flow Groundwater Sampling: Field Data Sheet

Well Number: MW-26S	Site: Diamond Head Oil Superfund Site OU2/ Harrison Ave., Kearny, NJ 07032-4310
Field Crew: LISA LA FORTUNE	Date: 06/00/09 Project #: 388641
Well Depth (ft.): 16 8	Purge Methodology: LOW FLOW
DTW (ft.): 5 8	
Water Column (ft.): 11	
Well Diameter (in.): 2	
Gal. per ft.: 0.163	Water Quality Meter:
Well Volume (gal.): 1.793	Horiba U-22 w/ flow cell
Depth of Screen (ft.): 4-17 13 65	

Diameter	Gal. Per Foot	Diameter	Gal. Per Foot
2"	.163	5"	1.020
3"	.367	6"	1.469
4"	.653	8"	2.611

Field Parameters

	Time	DTW (tic)	Flow Rate (ml/min)	Total Volume (gal)	pH (Std. Units)	Temp (C)	Cond. (mS/cm)	ORP (mV)	D.O. [Surface] (mg/l)	Turbidity (NTU)	HANOTEC Color/Odor
	Stabilization	< 0.3'	Purge at 200-500		+/- 0.1		+/- 3 %	+/- 10 mV	+/- 10%	+/- 10%	
Initial	1355	7.09	500	0.4	7.63	15.55	1.68	35	10.45	0.0	2846 BROWN/NO ODOR
1 VOL.	1400	7.08	500	0.8	7.40	15.51	2.16	-9	9.81	0.0	1164 " / " "
2 VOL.	1405	7.05	300	1.0	7.33	15.94	2.52	-41	9.16	300*	794 " / " "
3 VOL.	1410	7.05	350	1.2	7.32	16.01	2.71	-54	8.70	660	186 CLOUDY/NO ODOR
4 VOL.	1415	7.05	300	1.5	7.37	16.29	2.88	-76	7.65	587	150 CLOUDY/NO ODOR
5 VOL.	1420	7.05	200	1.8	7.37	16.60	2.86	-84	7.04	488	126 CLEAR/NO ODOR
6 VOL.	1425	7.05	200	2.0	7.36	16.60	2.83	-87	6.66	431	107.7 CLEAR/NO ODOR
7 VOL.	1430	7.05	200	2.3	7.34	16.73	2.81	-88	6.07	358	95.6 CLEAR/NO ODOR
8 VOL.	1435	7.05	250	2.5	7.33	16.75	2.80	-88	5.91	300	92.1 " / "
9 VOL.	1440	7.05	250	2.8	7.32	16.81	2.80	-88	5.51	246	76.1 " / "
10 VOL.	1445	7.05	250	3.1	7.31	16.68	2.81	-88	5.00	196	69.7 " / "
SAMPLE 1447 Post-Purge	1506	7.08	250	3.5	7.26	15.78	2.98	-25	0.95	50.3	32.1 " / "

Remarks: Pump Intake Depth: 15 0 BOTTOM Control Box Setting (Hz): Development: 59 50 Sampling: (Sample at 100-250 ml/min) 250

* FLUSHING, VERY TURBID.

SAMPLING

Depth to Water Before Sampling:

Sample Methodology: LOW FLOW

Sample Name: QC Sample: YES DUP

Sample Date/Time: 06/00/09 / 14.47

Sampler / Signature: LISA LA FORTUNE / [signature]

Filtered Metals Collected: Y / N Filter Size:

Sample Observations: CLEAR / NO ODOR

Parameters: TCL VOC, SVOC, PESTICIDES, PCBS, TAL METALS

MW-26S 3 40 ml VOAs 2-1L AMBER EACH w/HCL !!! 1-1L PLASTIC w/HNO3

DUP " " "

Rvision No. 1
Date: August 2007

Appendix D
Analytical Results—CLP Analyses

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Table Analytical Results Volatile Organic Compounds Soil

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S
Sample ID		MW-18S-0.5-1.5-3	MW-18S-10.6-11.6-3	MW-18S-5.5-6.5-3	MW-19S-0.5-1.5-3	MW-19S-26.0-27.0-3	MW-19S-29.0-30.0-3
Sample Date		05/12/2009	05/12/2009	05/12/2009	05/13/2009	05/13/2009	05/13/2009
Sample Interval		0.5 - 1.5 ft	10.6 - 11.6 ft	5.5 - 6.5 ft	0.5 - 1.5 ft	26 - 27 ft	29 - 30 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	11 U	280	770 J	14 U	3800 U	440
Benzene	71-43-2	5.3 U	4.2 J	410	7 U	1900 U	71 J
Bromoform	75-25-2	5.3 U	11 R	400 U	7 R	1900 U	11 R
Bromomethane	74-83-9	5.3 UJ	11 UJ	400 U	7 UJ	1900 U	11 UJ
Carbon disulfide	75-15-0	5.3 U	4.6 J	400 U	7 U	1900 U	11 U
Carbon tetrachloride	56-23-5	5.3 U	11 U	400 U	7 U	1900 U	11 R
Chlorobenzene	108-90-7	5.3 U	11 U	370 J	7 U	1900 U	11 R
Chloroethane	75-00-3	5.3 U	11 U	400 U	7 U	1900 U	11 U
Chloroform	67-66-3	5.3 U	11 U	400 U	7 U	1900 U	11 U
Chloromethane	74-87-3	5.3 U	11 U	400 U	7 U	1900 U	11 U
Cyclohexane	110-82-7	5.3 U	24 J	400 U	7 U	1900 U	11 R
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.3 U	11 R	400 U	7 R	1900 U	11 R
Dibromochloromethane	124-48-1	5.3 U	11 U	400 U	7 U	1900 U	11 R
Dibromoethane-1,2	106-93-4	5.3 U	11 U	400 U	7 U	1900 U	11 R
Dichlorobenzene-1,2	95-50-1	5.3 U	11 R	280 J	7 R	1900 U	11 R
Dichlorobenzene-1,3	541-73-1	5.3 U	11 R	400 U	7 R	1900 U	11 R
Dichlorobenzene-1,4	106-46-7	5.3 U	11 R	76 J	7 R	1900 U	11 R
Dichlorobromomethane	75-27-4	5.3 U	11 U	400 U	7 U	1900 U	11 R
Dichlorodifluoromethane	75-71-8	5.3 U	11 U	400 U	7 U	1900 U	11 U
Dichloroethane-1,1	75-34-3	5.3 U	11 U	400 U	7 U	1900 U	11 U
Dichloroethane-1,2	107-06-2	5.3 U	11 U	400 U	7 U	1900 U	11 U
Dichloroethene-1,2 trans	156-60-5	5.3 U	11 U	97 J	7 U	1900 U	11 U
Dichloroethylene-1,1	75-35-4	5.3 U	11 U	400 U	7 U	1900 U	11 U
Dichloroethylene-1,2 cis	156-59-2	5.3 U	11 U	260 J	7 U	1900 U	11 U
Dichloropropane-1,2	78-87-5	5.3 U	11 U	400 U	7 U	1900 U	11 R
Dichloropropene-1,3 cis	10061-01-5	5.3 U	11 U	400 U	7 U	1900 U	11 R
Dichloropropene-1,3 trans	10061-02-6	5.3 U	11 U	400 U	7 U	1900 U	11 R
Dioxane, 1,4-	123-91-1	110 R	220 R	8000 R	140 R	38000 R	560 J
Ethylbenzene	100-41-4	5.3 U	11 U	130 J	7 U	1900 U	23 J
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	5.3 U	11 U	400 U	7 U	1900 U	11 U

8/11/2009

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S
Sample ID		MW-18S-0.5-1.5-3	MW-18S-10.6-11.6-3	MW-18S-5.5-6.5-3	MW-19S-0.5-1.5-3	MW-19S-26.0-27.0-3	MW-19S-29.0-30.0-3
Sample Date		05/12/2009	05/12/2009	05/12/2009	05/13/2009	05/13/2009	05/13/2009
Sample Interval		0.5 - 1.5 ft	10.6 - 11.6 ft	5.5 - 6.5 ft	0.5 - 1.5 ft	26 - 27 ft	29 - 30 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	11 U	22 U	800 U	14 U	3800 U	21 R
Isopropylbenzene	98-82-8	5.3 U	43 J	600	7 U	4500	4.7 J
Methyl acetate	79-20-9	5.3 U	11 U	430	7 U	1900 U	11 U
Methyl cyclohexane	108-87-2	5.3 U	57 J	400 U	7 U	14000	11 J
Methyl ethyl ketone (2-butanone)	78-93-3	9.4 J	110	800 U	14 U	3800 U	150
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	11 U	22 U	800 U	14 U	3800 U	21 R
Methyl tertiary butyl ether (MTBE)	1634-04-4	5.3 U	11 U	400 U	7 U	1900 U	11 U
Methylene chloride	75-09-2	5.3 U	11 U	400 U	7 U	1900 U	11 U
Styrene	100-42-5	5.3 U	11 U	400 U	7 U	1900 U	11 R
Tetrachloroethane-1,1,2,2	79-34-5	5.3 U	11 U	400 U	7 U	1900 U	11 R
Tetrachloroethylene	127-18-4	5.3 U	11 U	400 U	7 U	1900 U	11 R
Toluene	108-88-3	5.3 U	11 U	210 J	7 U	1900 U	5.4 J
Trichlorobenzene-1,2,3	87-61-6	5.3 U	11 R	400 U	7 R	1900 U	11 R
Trichlorobenzene-1,2,4	120-82-1	5.3 U	11 R	400 U	7 R	1900 U	11 R
Trichloroethane-1,1,1	71-55-6	5.3 U	11 U	400 U	7 U	1900 U	11 R
Trichloroethane-1,1,2	79-00-5	5.3 U	11 U	400 U	7 U	1900 U	11 R
Trichloroethylene	79-01-6	5.3 U	11 U	80 J	7 U	1900 U	11 R
Trichlorofluoromethane	75-69-4	5.3 U	11 U	400 U	7 U	1900 U	11 U
Vinyl chloride	75-01-4	5.3 U	11 U	400 U	7 U	1900 U	11 U
Xylene-o	95-47-6	5.3 U	16 J	120 J	7 U	1900 U	27 J
XYLENES, M & P	179601-23-1	5.3 U	7.2 J	350 J	7 U	400000	130 J

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-19S	MW-20S	MW-20S	MW-20S	MW-20S	SB-39
Sample ID		MW-19S-6.0-6.8-3	D-3-05-14-09-05	MW-20S-0.5-1.5-3	MW-20S-15.0-16.0-3	MW-20S-26.0-27.0-3	D-3-05-08-09-02
Sample Date		05/13/2009	05/14/2009	05/14/2009	05/14/2009	05/14/2009	05/08/2009
Sample Interval		6 - 6.8 ft	0.5 - 1.5 ft	0.5 - 1.5 ft	15 - 16 ft	26 - 27 ft	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	800	10 U	11 U	1400	690 U	39
Benzene	71-43-2	150 J	2.1 J	5.3 U	630 U	350 U	6.4 U
Bromoform	75-25-2	340 U	5.1 R	5.3 R	630 U	350 U	6.4 R
Bromomethane	74-83-9	340 U	5.1 UJ	5.3 UJ	630 U	350 U	6.4 U
Carbon disulfide	75-15-0	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Carbon tetrachloride	56-23-5	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Chlorobenzene	108-90-7	340 U	5.1 U	2.1 J	630 U	130 J	6.4 U
Chloroethane	75-00-3	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Chloroform	67-66-3	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Chloromethane	74-87-3	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Cyclohexane	110-82-7	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	340 U	5.1 R	5.3 R	630 U	350 U	6.4 R
Dibromochloromethane	124-48-1	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dibromoethane-1,2	106-93-4	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichlorobenzene-1,2	95-50-1	180 J	5.1 R	5.3 R	630 U	350 U	6.4 R
Dichlorobenzene-1,3	541-73-1	340 U	5.1 R	5.3 R	630 U	350 U	6.4 R
Dichlorobenzene-1,4	106-46-7	190 J	5.1 R	5.3 R	630 U	83 J	6.4 R
Dichlorobromomethane	75-27-4	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichlorodifluoromethane	75-71-8	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichloroethane-1,1	75-34-3	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichloroethane-1,2	107-06-2	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichloroethene-1,2 trans	156-60-5	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichloroethylene-1,1	75-35-4	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichloroethylene-1,2 cis	156-59-2	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichloropropane-1,2	78-87-5	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichloropropene-1,3 cis	10061-01-5	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dichloropropene-1,3 trans	10061-02-6	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Dioxane, 1,4-	123-91-1	6800 R	100 R	110 R	13000 R	6900 R	130 R
Ethylbenzene	100-41-4	580 J	5.1 U	5.3 U	630 U	130 J	6.4 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U

8/11/2009

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-19S	MW-20S	MW-20S	MW-20S	MW-20S	SB-39
Sample ID		MW-19S-6.0-6.8-3	D-3-05-14-09-05	MW-20S-0.5-1.5-3	MW-20S-15.0-16.0-3	MW-20S-26.0-27.0-3	D-3-05-08-09-02
Sample Date		05/13/2009	05/14/2009	05/14/2009	05/14/2009	05/14/2009	05/08/2009
Sample Interval		6 - 6.8 ft	0.5 - 1.5 ft	0.5 - 1.5 ft	15 - 16 ft	26 - 27 ft	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	680 U	10 U	11 U	1300 U	690 U	13 U
Isopropylbenzene	98-82-8	1200 J	5.1 U	5.3 U	1300	350 U	6.4 U
Methyl acetate	79-20-9	510	5.1 U	5.3 U	590 J	350 U	6.4 U
Methyl cyclohexane	108-87-2	1200	5.1 U	5.3 U	630 U	350 U	6.4 U
Methyl ethyl ketone (2-butanone)	78-93-3	330 J	10 U	11 U	1300 U	690 U	6.4 J
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	680 U	10 U	11 U	1300 U	690 U	13 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Methylene chloride	75-09-2	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Styrene	100-42-5	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Tetrachloroethane-1,1,2,2	79-34-5	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Tetrachloroethylene	127-18-4	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Toluene	108-88-3	360 J	5.1 U	5.3 U	160 J	350 U	6.4 U
Trichlorobenzene-1,2,3	87-61-6	340 U	5.1 R	5.3 R	630 U	350 U	6.4 R
Trichlorobenzene-1,2,4	120-82-1	160 J	5.1 R	5.3 R	630 U	350 U	6.4 R
Trichloroethane-1,1,1	71-55-6	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Trichloroethane-1,1,2	79-00-5	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Trichloroethylene	79-01-6	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Trichlorofluoromethane	75-69-4	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Vinyl chloride	75-01-4	340 U	5.1 U	5.3 U	630 U	350 U	6.4 U
Xylene-o	95-47-6	180 J	5.1 U	5.3 U	630 U	350 U	6.4 U
XYLENES, M & P	179601-23-1	750 J	5.1 U	5.3 U	240 J	130 J	6.4 U

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-39	SB-39	SB-39	SB-40	SB-40	SB-40
Sample ID		SB-39-0.5-1.5-3	SB-39-10.5-11.5-3	SB-39-5.0-6.0-3	D-3-05-08-09-03	SB-40-0.5-1.5-3	SB-40-14.1-15.1-3
Sample Date		05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009
Sample Interval		0.5 - 1.5 FT	10.5 - 11.5 FT	5 - 6 FT	0.5 - 1.5 ft	0.5 - 1.5 FT	14.1 - 15.1 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	12 U	730 U	960 U	13 U	5 J	680 U
Benzene	71-43-2	6.1 U	3600	230 J	6.5 R	6.3 U	83 J
Bromoform	75-25-2	6.1 R	360 U	480 U	6.5 R	6.3 R	340 U
Bromomethane	74-83-9	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Carbon disulfide	75-15-0	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Carbon tetrachloride	56-23-5	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Chlorobenzene	108-90-7	6.1 U	220 J	250 J	6.5 R	6.3 U	340 U
Chloroethane	75-00-3	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Chloroform	67-66-3	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Chloromethane	74-87-3	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Cyclohexane	110-82-7	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.1 R	360 U	480 U	6.5 R	6.3 R	340 U
Dibromochloromethane	124-48-1	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Dibromoethane-1,2	106-93-4	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Dichlorobenzene-1,2	95-50-1	6.1 R	92 J	720	6.5 R	6.3 R	340 U
Dichlorobenzene-1,3	541-73-1	6.1 R	360 U	1700	6.5 R	6.3 R	340 U
Dichlorobenzene-1,4	106-46-7	6.1 R	86 J	1300	6.5 R	6.3 R	340 U
Dichlorobromomethane	75-27-4	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Dichlorodifluoromethane	75-71-8	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Dichloroethane-1,1	75-34-3	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Dichloroethane-1,2	107-06-2	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Dichloroethene-1,2 trans	156-60-5	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Dichloroethylene-1,1	75-35-4	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Dichloroethylene-1,2 cis	156-59-2	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Dichloropropane-1,2	78-87-5	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Dichloropropene-1,3 cis	10061-01-5	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Dichloropropene-1,3 trans	10061-02-6	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Dioxane, 1,4-	123-91-1	120 R	7300 R	9600 R	130 R	130 R	6800 R
Ethylbenzene	100-41-4	6.1 U	3800	270 J	6.5 R	6.3 U	340 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U

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Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-39	SB-39	SB-39	SB-40	SB-40	SB-40
Sample ID		SB-39-0.5-1.5-3	SB-39-10.5-11.5-3	SB-39-5.0-6.0-3	D-3-05-08-09-03	SB-40-0.5-1.5-3	SB-40-14.1-15.1-3
Sample Date		05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009
Sample Interval		0.5 - 1.5 FT	10.5 - 11.5 FT	5 - 6 FT	0.5 - 1.5 ft	0.5 - 1.5 FT	14.1 - 15.1 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	12 U	730 U	960 U	13 R	13 U	680 U
Isopropylbenzene	98-82-8	6.1 U	5200	2400	6.5 R	6.3 U	120 J
Methyl acetate	79-20-9	6.1 U	190 J	340 J	6.5 U	6.3 U	330 J
Methyl cyclohexane	108-87-2	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Methyl ethyl ketone (2-butanone)	78-93-3	12 U	730 U	960 U	13 U	13 U	680 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	12 U	730 U	960 U	13 R	13 U	680 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Methylene chloride	75-09-2	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Styrene	100-42-5	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Tetrachloroethane-1,1,2,2	79-34-5	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Tetrachloroethylene	127-18-4	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Toluene	108-88-3	6.1 U	98 J	190 J	6.5 R	6.3 U	340 U
Trichlorobenzene-1,2,3	87-61-6	6.1 R	360 UJ	480 UJ	6.5 R	6.3 R	340 UJ
Trichlorobenzene-1,2,4	120-82-1	6.1 R	360 U	480 U	6.5 R	6.3 R	340 U
Trichloroethane-1,1,1	71-55-6	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Trichloroethane-1,1,2	79-00-5	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Trichloroethylene	79-01-6	6.1 U	360 U	480 U	6.5 R	6.3 U	340 U
Trichlorofluoromethane	75-69-4	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Vinyl chloride	75-01-4	6.1 U	360 U	480 U	6.5 U	6.3 U	340 U
Xylene-o	95-47-6	6.1 U	270 J	160 J	6.5 R	6.3 U	340 U
XYLENES, M & P	179601-23-1	6.1 U	230 J	590	6.5 R	6.3 U	61 J

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-40	SB-41	SB-41	SB-41	SB-42	SB-42
Sample ID		SB-40-6.5-7.5-3	SB-41-0.5-1.5-3	SB-41-12.5-13.5-3	SB-41-30.5-31.5-3	SB-42-0.5-1.5-3	SB-42-2.0-3.0-3
Sample Date		05/08/2009	05/07/2009	05/07/2009	05/08/2009	05/07/2009	05/07/2009
Sample Interval		6.5 - 7.5 FT	0.5 - 1.5 FT	12.5 - 13.5 FT	30.5 - 31.5 FT	0.5 - 1.5 FT	2 - 3 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	530 J	1100 U	680 U	1200 J	58	700 U
Benzene	71-43-2	230 J	390 U	220 J	150 J	5.5 R	230 J
Bromoform	75-25-2	480 U	390 U	340 U	680 U	5.5 R	350 U
Bromomethane	74-83-9	480 U	390 U	340 U	680 U	5.5 U	350 U
Carbon disulfide	75-15-0	480 U	390 U	340 U	680 U	5.5 U	350 U
Carbon tetrachloride	56-23-5	480 U	390 U	340 U	680 U	5.5 R	350 U
Chlorobenzene	108-90-7	410 J	390 U	420	680 U	5.5 R	350 U
Chloroethane	75-00-3	480 U	390 U	340 U	680 U	5.5 U	350 U
Chloroform	67-66-3	480 U	390 U	150 J	680 U	5.5 U	350 U
Chloromethane	74-87-3	480 U	390 U	340 U	680 U	5.5 U	350 U
Cyclohexane	110-82-7	480 U	390 U	650	680 U	5.5 R	350 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	480 U	390 U	340 U	680 U	5.5 R	350 U
Dibromochloromethane	124-48-1	480 U	390 U	340 U	680 U	5.5 R	350 U
Dibromoethane-1,2	106-93-4	480 U	390 U	340 U	680 U	5.5 R	350 U
Dichlorobenzene-1,2	95-50-1	700	390 U	370	680 U	5.5 R	360
Dichlorobenzene-1,3	541-73-1	100 J	390 U	340 U	680 U	5.5 R	4500
Dichlorobenzene-1,4	106-46-7	1000	390 U	260 J	680 U	5.5 R	1200
Dichlorobromomethane	75-27-4	480 U	390 U	340 U	680 U	5.5 R	350 U
Dichlorodifluoromethane	75-71-8	480 U	390 U	340 U	680 U	5.5 U	350 U
Dichloroethane-1,1	75-34-3	480 U	390 U	340 U	680 U	5.5 U	350 U
Dichloroethane-1,2	107-06-2	480 U	390 U	340 U	680 U	5.5 U	350 U
Dichloroethene-1,2 trans	156-60-5	480 U	390 U	340 U	680 U	5.5 U	350 U
Dichloroethylene-1,1	75-35-4	480 U	390 U	340 U	680 U	5.5 U	350 U
Dichloroethylene-1,2 cis	156-59-2	480 U	390 U	340 U	680 U	5.5 U	350 U
Dichloropropane-1,2	78-87-5	480 U	390 U	340 U	680 U	5.5 R	350 U
Dichloropropene-1,3 cis	10061-01-5	480 U	390 U	340 U	680 U	5.5 R	350 U
Dichloropropene-1,3 trans	10061-02-6	480 U	390 U	340 U	680 U	5.5 R	350 U
Dioxane, 1,4-	123-91-1	9600 R	7900 R	6800 R	14000 R	110 R	7000 R
Ethylbenzene	100-41-4	830	390 U	200 J	230 J	5.5 R	480
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	480 U	390 U	340 U	680 U	5.5 U	350 U

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Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-40	SB-41	SB-41	SB-41	SB-42	SB-42
Sample ID		SB-40-6.5-7.5-3	SB-41-0.5-1.5-3	SB-41-12.5-13.5-3	SB-41-30.5-31.5-3	SB-42-0.5-1.5-3	SB-42-2.0-3.0-3
Sample Date		05/08/2009	05/07/2009	05/07/2009	05/08/2009	05/07/2009	05/07/2009
Sample Interval		6.5 - 7.5 FT	0.5 - 1.5 FT	12.5 - 13.5 FT	30.5 - 31.5 FT	0.5 - 1.5 FT	2 - 3 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	960 U	790 U	680 U	1400 U	11 R	700 U
Isopropylbenzene	98-82-8	650	390 U	3800	340 J	5.5 R	1100
Methyl acetate	79-20-9	280 J	1100	780	460 J	5.5 U	690
Methyl cyclohexane	108-87-2	480 U	390 U	2300	680 U	5.5 R	1600
Methyl ethyl ketone (2-butanone)	78-93-3	960 U	790 U	680 U	1400 U	7.6 J	700 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	960 U	790 U	680 U	1400 U	11 R	700 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	480 U	390 U	340 U	680 U	5.5 U	350 U
Methylene chloride	75-09-2	480 U	390 U	340 U	680 U	5.5 U	350 U
Styrene	100-42-5	480 U	390 U	340 U	680 U	5.5 R	350 U
Tetrachloroethane-1,1,2,2	79-34-5	480 U	390 U	340 U	680 U	5.5 R	350 U
Tetrachloroethylene	127-18-4	480 U	390 U	340 U	680 U	5.9 J	350 U
Toluene	108-88-3	95 J	390 U	160 J	500 J	3.8 J	280 J
Trichlorobenzene-1,2,3	87-61-6	480 UJ	390 U	340 U	680 UJ	2.8 J	350 U
Trichlorobenzene-1,2,4	120-82-1	140 J	390 U	340 U	680 U	2.7 J	200 J
Trichloroethane-1,1,1	71-55-6	480 U	390 U	340 U	680 U	5.5 R	350 U
Trichloroethane-1,1,2	79-00-5	480 U	390 U	340 U	680 U	5.5 R	350 U
Trichloroethylene	79-01-6	480 U	390 U	340 U	680 U	5.5 R	350 U
Trichlorofluoromethane	75-69-4	480 U	390 U	340 U	680 U	5.5 U	350 U
Vinyl chloride	75-01-4	480 U	390 U	340 U	680 U	5.5 U	350 U
Xylene-o	95-47-6	190 J	390 U	170 J	270 J	5.5 R	170 J
XYLENES, M & P	179601-23-1	1300	390 U	120 J	200 J	5.5 R	2500

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-42	SB-43	SB-43	SB-43	SB-44	SB-44
Sample ID		SB-42-32-33-3	SB-43-0.5-1.5-3	SB-43-11.5-12.5-3	SB-43-15.0-16.0-3	D-3-05-06-09-01	SB-44-0.5-1.0-3
Sample Date		05/07/2009	05/07/2009	05/07/2009	05/07/2009	05/06/2009	05/06/2009
Sample Interval		32 - 33 FT	0.5 - 1.5 FT	11.5 - 12.5 FT	15 - 16 FT	0.5 - 1.5 ft	0.5 - 1 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	4.7 J	12	270	860 U	890 U	11 U
Benzene	71-43-2	5.4 U	5.2 U	9.1 J	430 U	430 J	5.5 U
Bromoform	75-25-2	5.4 U	5.2 R	6.7 R	430 U	450 U	5.5 R
Bromomethane	74-83-9	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Carbon disulfide	75-15-0	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Carbon tetrachloride	56-23-5	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Chlorobenzene	108-90-7	5.4 U	5.2 U	6.7 J	110 J	1400	5.5 U
Chloroethane	75-00-3	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Chloroform	67-66-3	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Chloromethane	74-87-3	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Cyclohexane	110-82-7	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.4 U	5.2 R	6.7 R	430 U	450 U	5.5 R
Dibromochloromethane	124-48-1	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Dibromoethane-1,2	106-93-4	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Dichlorobenzene-1,2	95-50-1	5.4 U	5.2 R	6.7 R	430 U	450 U	5.5 R
Dichlorobenzene-1,3	541-73-1	5.4 U	5.2 R	6.7 R	430 U	120 J	5.5 R
Dichlorobenzene-1,4	106-46-7	5.4 U	5.2 R	6.7 R	430 U	380 J	5.5 R
Dichlorobromomethane	75-27-4	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Dichlorodifluoromethane	75-71-8	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Dichloroethane-1,1	75-34-3	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Dichloroethane-1,2	107-06-2	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Dichloroethene-1,2 trans	156-60-5	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Dichloroethylene-1,1	75-35-4	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Dichloroethylene-1,2 cis	156-59-2	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Dichloropropane-1,2	78-87-5	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Dichloropropene-1,3 cis	10061-01-5	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Dichloropropene-1,3 trans	10061-02-6	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Dioxane, 1,4-	123-91-1	110 R	100 R	130 R	8600 R	8900 R	110 R
Ethylbenzene	100-41-4	5.4 U	5.2 U	3.2 J	430 U	450 U	5.5 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U

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Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-42	SB-43	SB-43	SB-43	SB-44	SB-44
Sample ID		SB-42-32-33-3	SB-43-0.5-1.5-3	SB-43-11.5-12.5-3	SB-43-15.0-16.0-3	D-3-05-06-09-01	SB-44-0.5-1.0-3
Sample Date		05/07/2009	05/07/2009	05/07/2009	05/07/2009	05/06/2009	05/06/2009
Sample Interval		32 - 33 FT	0.5 - 1.5 FT	11.5 - 12.5 FT	15 - 16 FT	0.5 - 1.5 ft	0.5 - 1 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	11 U	10 U	13 R	860 U	890 U	11 U
Isopropylbenzene	98-82-8	5.4 U	5.2 U	9.5 J	430 U	450 U	5.5 U
Methyl acetate	79-20-9	5.4 U	5.2 U	6.7 U	420 J	450 U	5.5 U
Methyl cyclohexane	108-87-2	5.4 U	5.2 U	39 J	430 U	450 U	5.5 U
Methyl ethyl ketone (2-butanone)	78-93-3	11 U	4.7 J	7.8 J	860 U	890 U	11 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	11 U	10 U	13 R	860 U	890 U	11 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Methylene chloride	75-09-2	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Styrene	100-42-5	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Tetrachloroethane-1,1,2,2	79-34-5	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Tetrachloroethylene	127-18-4	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Toluene	108-88-3	5.4 U	5.2 U	5.1 J	180 J	450 U	5.5 U
Trichlorobenzene-1,2,3	87-61-6	5.4 U	5.2 R	6.7 R	430 U	450 U	5.5 R
Trichlorobenzene-1,2,4	120-82-1	5.4 U	5.2 R	6.7 R	430 U	560	5.5 R
Trichloroethane-1,1,1	71-55-6	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Trichloroethane-1,1,2	79-00-5	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Trichloroethylene	79-01-6	5.4 U	5.2 U	6.7 R	430 U	450 U	5.5 U
Trichlorofluoromethane	75-69-4	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Vinyl chloride	75-01-4	5.4 U	5.2 U	6.7 U	430 U	450 U	5.5 U
Xylene-o	95-47-6	5.4 U	5.2 U	34 J	83 J	450 U	5.5 U
XYLENES, M & P	179601-23-1	5.4 U	5.2 U	19 J	430 U	450 U	5.5 U

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-44	SB-44	SB-45	SB-45	SB-45	SB-46
Sample ID		SB-44-13.1-13.6-3	SB-44-6.2-6.7-3	SB-45-15.7-16.2-3	SB-45-2.0-2.5-3	SB-45-6.5-7.0-3	SB-46-0.5-1.5-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		13.1 - 13.6 FT	6.2 - 6.7 FT	15.7 - 16.2 FT	2 - 2.5 FT	6.5 - 7 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	720 U	680 U	850 U	1100 U	1300 U	11 U
Benzene	71-43-2	140 J	340 U	600	530 U	280 J	5.3 R
Bromoform	75-25-2	360 U	340 U	430 U	530 U	630 U	5.3 R
Bromomethane	74-83-9	360 U	340 U	430 U	530 U	630 U	5.3 U
Carbon disulfide	75-15-0	360 U	93 J	430 U	530 U	150 J	5.3 U
Carbon tetrachloride	56-23-5	360 U	340 U	430 U	530 U	630 U	5.3 R
Chlorobenzene	108-90-7	900	140 J	120 J	7100	130 J	5.3 R
Chloroethane	75-00-3	360 U	340 U	430 U	530 U	630 U	5.3 U
Chloroform	67-66-3	360 U	340 U	130 J	530 U	630 U	5.3 U
Chloromethane	74-87-3	360 U	340 U	430 U	530 U	630 U	5.3 U
Cyclohexane	110-82-7	360 U	340 U	430 U	530 U	630 U	5.3 R
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	360 U	340 U	430 U	530 U	630 U	5.3 R
Dibromochloromethane	124-48-1	360 U	340 U	430 U	530 U	630 U	5.3 R
Dibromoethane-1,2	106-93-4	360 U	340 U	430 U	530 U	630 U	5.3 R
Dichlorobenzene-1,2	95-50-1	2500	120 J	3800	130 J	630 U	5.3 R
Dichlorobenzene-1,3	541-73-1	1200	390	420 J	11000	630 U	5.3 R
Dichlorobenzene-1,4	106-46-7	1700	260 J	560	17000	230 J	5.3 R
Dichlorobromomethane	75-27-4	360 U	340 U	430 U	530 U	630 U	5.3 R
Dichlorodifluoromethane	75-71-8	360 U	340 U	430 U	530 U	630 U	5.3 U
Dichloroethane-1,1	75-34-3	360 U	340 U	430 U	530 U	630 U	5.3 U
Dichloroethane-1,2	107-06-2	360 U	340 U	430 U	530 U	630 U	5.3 U
Dichloroethene-1,2 trans	156-60-5	360 U	340 U	430 U	530 U	630 U	5.3 U
Dichloroethylene-1,1	75-35-4	360 U	340 U	430 U	530 U	630 U	5.3 U
Dichloroethylene-1,2 cis	156-59-2	360 U	340 U	320 J	530 U	630 U	5.3 U
Dichloropropane-1,2	78-87-5	360 U	340 U	430 U	530 U	630 U	5.3 R
Dichloropropene-1,3 cis	10061-01-5	360 U	340 U	430 U	530 U	630 U	5.3 R
Dichloropropene-1,3 trans	10061-02-6	360 U	340 U	430 U	530 U	630 U	5.3 R
Dioxane, 1,4-	123-91-1	7200 R	6800 R	8500 R	11000 R	13000 R	110 R
Ethylbenzene	100-41-4	530 J	340 U	6200	530 U	8600	5.3 R
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	360 U	340 U	430 U	530 U	630 U	5.3 U

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Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-44	SB-44	SB-45	SB-45	SB-45	SB-46
Sample ID		SB-44-13.1-13.6-3	SB-44-6.2-6.7-3	SB-45-15.7-16.2-3	SB-45-2.0-2.5-3	SB-45-6.5-7.0-3	SB-46-0.5-1.5-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		13.1 - 13.6 FT	6.2 - 6.7 FT	15.7 - 16.2 FT	2 - 2.5 FT	6.5 - 7 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	720 U	680 U	850 U	1100 U	1300 U	11 R
Isopropylbenzene	98-82-8	2800 J	200 J	1200	530 U	4600	5.3 R
Methyl acetate	79-20-9	360 U	310 J	430 U	340 J	1000	5.3 U
Methyl cyclohexane	108-87-2	4700	340 U	430 U	530 U	630 U	5.3 R
Methyl ethyl ketone (2-butanone)	78-93-3	720 U	680 U	850 U	1100 U	1300 U	11 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	720 U	680 U	850 U	1100 U	1300 U	11 R
Methyl tertiary butyl ether (MTBE)	1634-04-4	360 U	340 U	430 U	530 U	630 U	5.3 U
Methylene chloride	75-09-2	360 U	340 U	430 U	530 U	630 U	5.3 U
Styrene	100-42-5	360 U	340 U	430 U	530 U	630 U	5.3 R
Tetrachloroethane-1,1,2,2	79-34-5	360 U	340 U	430 U	530 U	630 U	5.3 R
Tetrachloroethylene	127-18-4	360 U	340 U	430 U	530 U	630 U	5.3 R
Toluene	108-88-3	640 J	340 U	4800	530 U	1100	5.3 R
Trichlorobenzene-1,2,3	87-61-6	360 U	340 U	430 U	530 U	630 U	5.3 R
Trichlorobenzene-1,2,4	120-82-1	360 U	340 U	1200	200 J	630 U	5.3 R
Trichloroethane-1,1,1	71-55-6	360 U	340 U	430 U	530 U	630 U	5.3 R
Trichloroethane-1,1,2	79-00-5	360 U	340 U	430 U	530 U	630 U	5.3 R
Trichloroethylene	79-01-6	360 U	340 U	520	530 U	630 U	5.3 R
Trichlorofluoromethane	75-69-4	360 U	340 U	430 U	530 U	630 U	5.3 U
Vinyl chloride	75-01-4	360 U	340 U	430 U	530 U	630 U	5.3 U
Xylene-o	95-47-6	560 J	340 U	10000	530 U	5400	5.3 R
XYLENES, M & P	179601-23-1	16000	83 J	20000	530 U	2700	5.3 R

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-46	SB-46	SB-47	SB-47	SB-47	SB-48
Sample ID		SB-46-21.0-22.0-3	SB-46-49.0-50.0-3	SB-47-0.5-1.5-3	SB-47-15.5-16.5-3	SB-47-27.0-28.0-3	SB-48-0.5-1.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/06/2009
Sample Interval		21 - 22 FT	49 - 50 FT	0.5 - 1.5 FT	15.5 - 16.5 FT	27 - 28 FT	0.5 - 1 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	830 J	23	11	1300	650 J	12 U
Benzene	71-43-2	290 J	4.6 U	5.1 U	110 J	83 J	5.8 R
Bromoform	75-25-2	470 U	4.6 U	5.1 R	420 U	440 U	5.8 R
Bromomethane	74-83-9	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Carbon disulfide	75-15-0	140 J	2 J	5.1 U	100 J	82 J	5.8 U
Carbon tetrachloride	56-23-5	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Chlorobenzene	108-90-7	1200	4.6 U	5.1 U	420 U	440 U	5.8 R
Chloroethane	75-00-3	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Chloroform	67-66-3	470 U	4.6 U	5.1 U	420 U	440 U	5.3 J
Chloromethane	74-87-3	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Cyclohexane	110-82-7	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	470 U	4.6 U	5.1 R	420 U	440 U	5.8 R
Dibromochloromethane	124-48-1	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Dibromoethane-1,2	106-93-4	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Dichlorobenzene-1,2	95-50-1	91 J	4.6 U	5.1 R	130 J	80 J	5.8 R
Dichlorobenzene-1,3	541-73-1	470 U	4.6 U	5.1 R	420 U	440 U	5.8 R
Dichlorobenzene-1,4	106-46-7	640	4.6 U	5.1 R	190 J	100 J	5.8 R
Dichlorobromomethane	75-27-4	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Dichlorodifluoromethane	75-71-8	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Dichloroethane-1,1	75-34-3	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Dichloroethane-1,2	107-06-2	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Dichloroethene-1,2 trans	156-60-5	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Dichloroethylene-1,1	75-35-4	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Dichloroethylene-1,2 cis	156-59-2	150 J	4.6 U	5.1 U	420 U	440 U	5.8 U
Dichloropropane-1,2	78-87-5	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Dichloropropene-1,3 cis	10061-01-5	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Dichloropropene-1,3 trans	10061-02-6	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Dioxane, 1,4-	123-91-1	9400 R	91 R	100 R	8300 R	8900 R	120 R
Ethylbenzene	100-41-4	400 J	4.6 U	5.1 U	130 J	320 J	5.8 R
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U

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Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-46	SB-46	SB-47	SB-47	SB-47	SB-48
Sample ID		SB-46-21.0-22.0-3	SB-46-49.0-50.0-3	SB-47-0.5-1.5-3	SB-47-15.5-16.5-3	SB-47-27.0-28.0-3	SB-48-0.5-1.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/06/2009
Sample Interval		21 - 22 FT	49 - 50 FT	0.5 - 1.5 FT	15.5 - 16.5 FT	27 - 28 FT	0.5 - 1 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	940 U	9.1 U	10 U	830 U	890 U	12 R
Isopropylbenzene	98-82-8	650	4.6 U	5.1 U	570	410 J	5.8 R
Methyl acetate	79-20-9	2100	4.6 U	2 J	490	390 J	5.8 U
Methyl cyclohexane	108-87-2	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Methyl ethyl ketone (2-butanone)	78-93-3	940 U	4.4 J	10 U	370 J	890 U	12 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	940 U	9.1 U	10 U	830 U	890 U	12 R
Methyl tertiary butyl ether (MTBE)	1634-04-4	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Methylene chloride	75-09-2	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Styrene	100-42-5	120 J	4.6 U	5.1 U	420 U	440 U	5.8 R
Tetrachloroethane-1,1,2,2	79-34-5	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Tetrachloroethylene	127-18-4	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Toluene	108-88-3	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Trichlorobenzene-1,2,3	87-61-6	470 U	4.6 U	5.1 R	420 U	440 U	5.8 R
Trichlorobenzene-1,2,4	120-82-1	470 U	4.6 U	5.1 R	420 U	440 U	5.8 R
Trichloroethane-1,1,1	71-55-6	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Trichloroethane-1,1,2	79-00-5	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Trichloroethylene	79-01-6	470 U	4.6 U	5.1 U	420 U	440 U	5.8 R
Trichlorofluoromethane	75-69-4	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Vinyl chloride	75-01-4	470 U	4.6 U	5.1 U	420 U	440 U	5.8 U
Xylene-o	95-47-6	86 J	4.6 U	5.1 U	290 J	120 J	5.8 R
XYLENES, M & P	179601-23-1	580	4.6 U	5.1 U	450	1300	5.8 R

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-48	SB-48	SB-49	SB-49	SB-49	SB-50
Sample ID		SB-48-11.0-11.5-3	SB-48-20-20.5	SB-49-0.5-1.0-3	SB-49-15.1-15.6-3	SB-49-20.0-20.5-3	D-3-05-11-09-04
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		11 - 11.5 FT	20 - 20.5 FT	0.5 - 1 FT	15.1 - 15.6 FT	20 - 20.5 FT	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	940 U	900 U	13 U	11 J	18	730
Benzene	71-43-2	470 U	94 J	6.6 U	6 U	13	130 J
Bromoform	75-25-2	470 U	450 U	6.6 R	6 U	5.7 U	360 U
Bromomethane	74-83-9	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Carbon disulfide	75-15-0	92 J	110 J	6.6 U	6 U	5.7 U	360 U
Carbon tetrachloride	56-23-5	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Chlorobenzene	108-90-7	510	450 U	6.6 U	6 U	5.7 U	410
Chloroethane	75-00-3	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Chloroform	67-66-3	470 U	450 U	6.6 U	6 U	2.6 J	360 U
Chloromethane	74-87-3	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Cyclohexane	110-82-7	470 U	450 U	6.6 U	6 U	5.7 U	360 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	470 U	450 U	6.6 R	6 U	5.7 U	360 U
Dibromochloromethane	124-48-1	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dibromoethane-1,2	106-93-4	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichlorobenzene-1,2	95-50-1	130 J	350 J	6.6 R	6 U	25	360 U
Dichlorobenzene-1,3	541-73-1	470 U	450 U	6.6 R	6 U	3.4 J	73 J
Dichlorobenzene-1,4	106-46-7	700	450 U	6.6 R	6 U	4.8 J	300 J
Dichlorobromomethane	75-27-4	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichlorodifluoromethane	75-71-8	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichloroethane-1,1	75-34-3	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichloroethane-1,2	107-06-2	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichloroethene-1,2 trans	156-60-5	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichloroethylene-1,1	75-35-4	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichloroethylene-1,2 cis	156-59-2	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichloropropane-1,2	78-87-5	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichloropropene-1,3 cis	10061-01-5	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dichloropropene-1,3 trans	10061-02-6	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Dioxane, 1,4-	123-91-1	9400 R	9000 R	130 R	120 R	110 R	7100 R
Ethylbenzene	100-41-4	470 U	160 J	6.6 U	6 U	28	79 J
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	470 U	450 U	6.6 U	6 U	5.7 U	360 U

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Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-48	SB-48	SB-49	SB-49	SB-49	SB-50
Sample ID		SB-48-11.0-11.5-3	SB-48-20-20.5	SB-49-0.5-1.0-3	SB-49-15.1-15.6-3	SB-49-20.0-20.5-3	D-3-05-11-09-04
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		11 - 11.5 FT	20 - 20.5 FT	0.5 - 1 FT	15.1 - 15.6 FT	20 - 20.5 FT	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	940 U	900 U	13 U	12 U	11 U	710 U
Isopropylbenzene	98-82-8	940	240 J	6.6 U	6 U	5.8	360 U
Methyl acetate	79-20-9	540	910	6.6 U	6 U	5.7 U	240 J
Methyl cyclohexane	108-87-2	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Methyl ethyl ketone (2-butanone)	78-93-3	940 U	900 U	13 U	12 U	6 J	270 J
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	940 U	900 U	13 U	12 U	11 U	710 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Methylene chloride	75-09-2	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Styrene	100-42-5	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Tetrachloroethane-1,1,2,2	79-34-5	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Tetrachloroethylene	127-18-4	470 U	450 U	6.4 J	6 U	5.7 U	360 U
Toluene	108-88-3	160 J	190 J	6.6 U	6 U	10	360 U
Trichlorobenzene-1,2,3	87-61-6	470 U	450 U	6.6 R	6 U	5.7 U	360 U
Trichlorobenzene-1,2,4	120-82-1	470 U	450 U	6.6 R	6 U	10	360 U
Trichloroethane-1,1,1	71-55-6	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Trichloroethane-1,1,2	79-00-5	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Trichloroethylene	79-01-6	470 U	450 U	3 J	6 U	5.7 U	360 U
Trichlorofluoromethane	75-69-4	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Vinyl chloride	75-01-4	470 U	450 U	6.6 U	6 U	5.7 U	360 U
Xylene-o	95-47-6	470 U	200 J	6.6 U	6 U	61	360 U
XYLENES, M & P	179601-23-1	270 J	170 J	6.6 U	6 U	140	170 J

Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-50	SB-50	SB-50	SB-51	SB-51	SB-51
Sample ID		SB-50-0.5-1.5-3	SB-50-20.0-21.0-3	SB-50-29.0-30.0-3	SB-51-0.5-1.5-3	SB-51-16.0-17.0-3	SB-51-25.0-26.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009
Sample Interval		0.5 - 1.5 FT	20 - 21 FT	29 - 30 FT	0.5 - 1.5 FT	16 - 17 FT	25 - 26 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	18	1200	640	6.2 J	1600 J	79 J
Benzene	71-43-2	5.2 U	83 J	320 U	4.6 J	210 J	8.3 J
Bromoform	75-25-2	5.2 R	370 U	320 U	6.3 R	830 U	6.6 R
Bromomethane	74-83-9	5.2 UJ	370 U	320 U	6.3 R	830 U	6.6 U
Carbon disulfide	75-15-0	5.2 U	78 J	320 U	6.3 R	830 U	5.4 J
Carbon tetrachloride	56-23-5	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Chlorobenzene	108-90-7	5.2 U	270 J	100 J	6.3 R	370 J	7.6 J
Chloroethane	75-00-3	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Chloroform	67-66-3	5.2 U	100 J	320 U	6.3 R	830 U	6.6 U
Chloromethane	74-87-3	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Cyclohexane	110-82-7	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.2 R	370 U	320 U	6.3 R	830 U	6.6 R
Dibromochloromethane	124-48-1	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Dibromoethane-1,2	106-93-4	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Dichlorobenzene-1,2	95-50-1	5.2 R	1600	320 U	6.3 R	810 J	6.6 R
Dichlorobenzene-1,3	541-73-1	5.2 R	160 J	320 U	6.3 R	830 U	6.6 R
Dichlorobenzene-1,4	106-46-7	5.2 R	350 J	130 J	6.3 R	1300	6.6 R
Dichlorobromomethane	75-27-4	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Dichlorodifluoromethane	75-71-8	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Dichloroethane-1,1	75-34-3	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Dichloroethane-1,2	107-06-2	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Dichloroethene-1,2 trans	156-60-5	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Dichloroethylene-1,1	75-35-4	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Dichloroethylene-1,2 cis	156-59-2	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Dichloropropane-1,2	78-87-5	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Dichloropropene-1,3 cis	10061-01-5	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Dichloropropene-1,3 trans	10061-02-6	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Dioxane, 1,4-	123-91-1	100 R	7300 R	6300 R	130 R	17000 R	130 R
Ethylbenzene	100-41-4	5.2 U	190 J	320 U	6.3 R	780 J	6.1 J
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U

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Analytical Results - Volatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-50	SB-50	SB-50	SB-51	SB-51	SB-51
Sample ID		SB-50-0.5-1.5-3	SB-50-20.0-21.0-3	SB-50-29.0-30.0-3	SB-51-0.5-1.5-3	SB-51-16.0-17.0-3	SB-51-25.0-26.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009
Sample Interval		0.5 - 1.5 FT	20 - 21 FT	29 - 30 FT	0.5 - 1.5 FT	16 - 17 FT	25 - 26 FT
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	10 U	730 U	630 U	13 R	1700 U	13 R
Isopropylbenzene	98-82-8	5.2 U	1000	820	6.3 R	780 J	9.3 J
Methyl acetate	79-20-9	5.2 U	370 U	270 J	6.3 R	830	6.6 U
Methyl cyclohexane	108-87-2	5.2 U	960	320 U	6.3 R	830 U	14 J
Methyl ethyl ketone (2-butanone)	78-93-3	5.2 J	730 U	170 J	13 R	1700 U	30 J
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	10 U	730 U	630 U	13 R	1700 U	13 R
Methyl tertiary butyl ether (MTBE)	1634-04-4	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Methylene chloride	75-09-2	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Styrene	100-42-5	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Tetrachloroethane-1,1,2,2	79-34-5	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Tetrachloroethylene	127-18-4	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Toluene	108-88-3	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Trichlorobenzene-1,2,3	87-61-6	5.2 R	370 U	320 U	6.3 R	830 U	6.6 R
Trichlorobenzene-1,2,4	120-82-1	5.2 R	220 J	320 U	6.3 R	830 U	6.6 R
Trichloroethane-1,1,1	71-55-6	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Trichloroethane-1,1,2	79-00-5	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Trichloroethylene	79-01-6	5.2 U	370 U	320 U	6.3 R	830 U	6.6 R
Trichlorofluoromethane	75-69-4	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Vinyl chloride	75-01-4	5.2 U	370 U	320 U	6.3 R	830 U	6.6 U
Xylene-o	95-47-6	5.2 U	270 J	320 U	6.3 R	240 J	11 J
XYLENES, M & P	179601-23-1	5.2 U	300 J	320 U	6.3 R	480 J	12 J

Table Analytical Results Semivolatile Organic Compounds Soil

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S
Sample ID		MW-18S-0.5-1.5-3	MW-18S-10.6-11.6-3	MW-18S-5.5-6.5-3	MW-19S-0.5-1.5-3	MW-19S-26.0-27.0-3	MW-19S-29.0-30.0-3
Sample Date		05/12/2009	05/12/2009	05/12/2009	05/13/2009	05/13/2009	05/13/2009
Sample Interval		0.5 - 1.5 ft	10.6 - 11.6 ft	5.5 - 6.5 ft	0.5 - 1.5 ft	26 - 27 ft	29 - 30 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	190 U	24000	6800	29 J	110 J	1200 J
Acenaphthylene	208-96-8	32 J	3100	1000 J	59 J	1000 U	2500
Acetophenone	98-86-2	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Anthracene	120-12-7	27 J	19000	15000	100 J	160 J	2200
Atrazine	1912-24-9	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Benzaldehyde	100-52-7	190 U	1600 U	6600 U	170 J	1000 U	2000 U
Benzo(a)anthracene	56-55-3	110 J	21000	33000	410	260 J	12000
Benzo(a)pyrene	50-32-8	140 J	18000	32000	440	250 J	10000
Benzo(b)fluoranthene	205-99-2	130 J	16000	33000	540	250 J	9000
Benzo(g,h,I)perylene	191-24-2	70 J	4300	13000	160 J	150 J	2800
Benzo(k)fluoranthene	207-08-9	160 J	14000	25000	360	220 J	11000
Biphenyl	92-52-4	190 U	600 J	6600 U	240 U	1000 U	310 J
Bromophenyl-4 Phenyl Ether	101-55-3	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Butylbenzyl phthalate	85-68-7	370	1600 U	6600 U	240 U	1000 U	2000 U
Caprolactam	105-60-2	45 J	1600 U	6600 U	240 U	1000 U	2000 U
Carbazole	86-74-8	190 U	1400 J	6700	33 J	1000 U	2000 U
Chloroaniline-4	106-47-8	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Chloronaphthalene-2	91-58-7	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Chlorophenol-2	95-57-8	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Chlorophenyl-4 phenyl ether	7005-72-3	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Chrysene	218-01-9	150 J	25000	38000	520	360 J	15000
Cresol-4,6-dinitro-ortho	534-52-1	370 U	3100 U	13000 U	470 U	1900 U	3900 U
Cresol-o	95-48-7	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Cresol-p	106-44-5	190 U	290 J	6600 U	41 J	1000 U	2000 U
Cresol-parachloro-meta	59-50-7	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Dibenzo(a,h)anthracene	53-70-3	190 U	1600	3800 J	53 J	1000 U	1000 J
Dibenzofuran	132-64-9	190 U	2100	5500 J	240 U	1000 U	250 J
Dichlorobenzidine-3,3	91-94-1	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Dichlorophenol-2,4	120-83-2	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Dimethylphenol-2,4	105-67-9	190 U	1600 U	6600 U	240 U	410 J	2000 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S
Sample ID		MW-18S-0.5-1.5-3	MW-18S-10.6-11.6-3	MW-18S-5.5-6.5-3	MW-19S-0.5-1.5-3	MW-19S-26.0-27.0-3	MW-19S-29.0-30.0-3
Sample Date		05/12/2009	05/12/2009	05/12/2009	05/13/2009	05/13/2009	05/13/2009
Sample Interval		0.5 - 1.5 ft	10.6 - 11.6 ft	5.5 - 6.5 ft	0.5 - 1.5 ft	26 - 27 ft	29 - 30 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	370 U	3100 U	13000 U	470 U	1900 U	3900 U
Dinitrotoluene-2,4	121-14-2	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Dinitrotoluene-2,6	606-20-2	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Ether, bis(2-chloroethyl)	111-44-4	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Ether, bis-chloroisopropyl	108-60-1	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Fluoranthene	206-44-0	160 J	42000	75000	690	610 J	14000
Fluorene	86-73-7	190 U	14000	9300	31 J	180 J	870 J
Hexachlorobenzene	118-74-1	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Hexachlorobutadiene	87-68-3	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Hexachlorocyclopentadiene	77-47-4	190 UJ	1600 UJ	6600 UJ	240 UJ	1000 UJ	2000 UJ
Hexachloroethane	67-72-1	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Indeno(1,2,3-cd)pyrene	193-39-5	64 J	4100	13000	180 J	130 J	2700
Isophorone	78-59-1	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Methane, bis(2-chloroethoxy)	111-91-1	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Methylnaphthalene-2	91-57-6	190 U	23000 J	2700 J	31 J	300 J	1500 J
Naphthalene	91-20-3	24 J	17000	4200 J	36 J	360 J	1600 J
Nitroaniline-2	88-74-4	370 U	3100 U	13000 U	470 U	1900 U	3900 U
Nitroaniline-3	99-09-2	370 U	3100 U	13000 U	470 U	1900 U	3900 U
Nitroaniline-4	100-01-6	370 U	3100 U	13000 U	470 U	1900 U	3900 U
Nitrobenzene	98-95-3	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Nitrophenol-2	88-75-5	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Nitrophenol-4	100-02-7	370 U	3100 U	13000 U	470 U	1900 U	3900 U
Nitroso-di-n-propyl-amine-N	621-64-7	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Nitrosodiphenylamine-n	86-30-6	190 U	1600 U	6600 U	240 U	1000 U	2000 U
PCP (Pentachlorophenol)	87-86-5	370 U	3100 UJ	13000 UJ	470 UJ	1900 UJ	3900 UJ
Phenanthrene	85-01-8	65 J	57000	61000	380	690 J	4200
Phenol	108-95-2	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	210 U	1600 U	1200 J	95 J	1700	2000 U
Phthalate, diethyl	84-66-2	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Phthalate, dimethyl	131-11-3	190 U	1600 U	6600 U	240 U	1000 U	2000 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S
Sample ID		MW-18S-0.5-1.5-3	MW-18S-10.6-11.6-3	MW-18S-5.5-6.5-3	MW-19S-0.5-1.5-3	MW-19S-26.0-27.0-3	MW-19S-29.0-30.0-3
Sample Date		05/12/2009	05/12/2009	05/12/2009	05/13/2009	05/13/2009	05/13/2009
Sample Interval		0.5 - 1.5 ft	10.6 - 11.6 ft	5.5 - 6.5 ft	0.5 - 1.5 ft	26 - 27 ft	29 - 30 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	190 U	240 J	6600 U	33 J	280 J	2000 U
Phthalate, di-n-octyl	117-84-0	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Pyrene	129-00-0	130 J	43000	57000	600	570 J	19000
Tetrachlorobenzene-1,2,4,5	95-94-3	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Tetrachlorophenol-2,3,4,6	58-90-2	190 U	1600 U	6600 U	240 U	1000 U	2000 U
Trichlorophenol-2,4,5	95-95-4	190 U	1600 UJ	6600 UJ	240 U	1000 UJ	2000 U
Trichlorophenol-2,4,6	88-06-2	190 U	1600 U	6600 U	240 U	1000 U	2000 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-19S	MW-20S	MW-20S	MW-20S	MW-20S	SB-39
Sample ID		MW-19S-6.0-6.8-3	D-3-05-14-09-05	MW-20S-0.5-1.5-3	MW-20S-15.0-16.0-3	MW-20S-26.0-27.0-3	D-3-05-08-09-02
Sample Date		05/13/2009	05/14/2009	05/14/2009	05/14/2009	05/14/2009	05/08/2009
Sample Interval		6 - 6.8 ft	0.5 - 1.5 ft	0.5 - 1.5 ft	15 - 16 ft	26 - 27 ft	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	3500 J	53 J	41 J	1600	1400	49000
Acenaphthylene	208-96-8	6100 U	38 J	48 J	970	1100 U	7900 U
Acetophenone	98-86-2	6100 U	200 U	210 U	260 U	1100 U	7900 U
Anthracene	120-12-7	4300 J	190 J	140 J	1900	720 J	13000
Atrazine	1912-24-9	6100 U	200 U	210 U	260 U	1100 U	7900 U
Benzaldehyde	100-52-7	6100 U	200 U	210 U	260 U	1100 U	7900 U
Benzo(a)anthracene	56-55-3	6500	1200	1700	4300	1200	7200 J
Benzo(a)pyrene	50-32-8	6700	1300 J	1900 J	4300	1200 J	4200 J
Benzo(b)fluoranthene	205-99-2	5700 J	2100 J	2800 J	3700	1100 J	3300 J
Benzo(g,h,I)perylene	191-24-2	4500 J	420 J	780 J	2500 J	320 J	2900 J
Benzo(k)fluoranthene	207-08-9	5000 J	1200 J	2100 J	3000	1100 J	4800 J
Biphenyl	92-52-4	6100 U	27 J	37 J	89 J	190 J	3100 J
Bromophenyl-4 Phenyl Ether	101-55-3	6100 U	200 U	210 U	260 U	1100 U	7900 U
Butylbenzyl phthalate	85-68-7	6100 U	200 U	210 U	260 U	1100 U	7900 U
Caprolactam	105-60-2	6100 U	200 U	210 U	260 U	1100 U	7900 U
Carbazole	86-74-8	1200 J	46 J	40 J	160 J	1100 U	1400 J
Chloroaniline-4	106-47-8	6100 U	200 U	210 U	260 U	1100 U	7900 U
Chloronaphthalene-2	91-58-7	6100 U	200 U	210 U	260 U	1100 U	7900 U
Chlorophenol-2	95-57-8	6100 U	200 U	210 U	260 U	1100 U	7900 U
Chlorophenyl-4 phenyl ether	7005-72-3	6100 U	200 U	210 U	260 U	1100 U	7900 U
Chrysene	218-01-9	8000	1400	1900	4200	1400	8100
Cresol-4,6-dinitro-ortho	534-52-1	12000 U	400 U	400 U	510 U	2200 U	15000 U
Cresol-o	95-48-7	6100 U	200 U	210 U	260 U	1100 U	7900 U
Cresol-p	106-44-5	6100 U	22 J	210 U	59 J	1100 U	7900 U
Cresol-parachloro-meta	59-50-7	6100 U	200 U	210 U	260 U	1100 U	7900 U
Dibenzo(a,h)anthracene	53-70-3	1000 J	140 J	290 J	820 J	1100 R	7900 U
Dibenzofuran	132-64-9	1600 J	52 J	52 J	240 J	130 J	19000
Dichlorobenzidine-3,3	91-94-1	6100 U	200 U	210 U	260 U	1100 U	7900 U
Dichlorophenol-2,4	120-83-2	6100 U	120 J	110 J	260 U	1100 U	7900 U
Dimethylphenol-2,4	105-67-9	6100 U	33 J	210 U	260 U	1100 U	7900 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-19S	MW-20S	MW-20S	MW-20S	MW-20S	SB-39
Sample ID		MW-19S-6.0-6.8-3	D-3-05-14-09-05	MW-20S-0.5-1.5-3	MW-20S-15.0-16.0-3	MW-20S-26.0-27.0-3	D-3-05-08-09-02
Sample Date		05/13/2009	05/14/2009	05/14/2009	05/14/2009	05/14/2009	05/08/2009
Sample Interval		6 - 6.8 ft	0.5 - 1.5 ft	0.5 - 1.5 ft	15 - 16 ft	26 - 27 ft	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	12000 U	400 U	400 U	510 U	2200 U	15000 U
Dinitrotoluene-2,4	121-14-2	6100 U	200 U	210 U	260 U	1100 U	7900 U
Dinitrotoluene-2,6	606-20-2	6100 U	200 U	210 U	260 U	1100 U	7900 U
Ether, bis(2-chloroethyl)	111-44-4	6100 U	23 J	210 U	260 U	1100 U	7900 U
Ether, bis-chloroisopropyl	108-60-1	6100 U	200 U	210 U	260 U	1100 U	7900 U
Fluoranthene	206-44-0	15000	1300	1400	4600	1300	54000
Fluorene	86-73-7	3800 J	82 J	59 J	630	740 J	31000
Hexachlorobenzene	118-74-1	2600 J	52 J	49 J	260 U	1100 U	7900 U
Hexachlorobutadiene	87-68-3	6100 U	200 U	210 U	260 U	1100 U	7900 U
Hexachlorocyclopentadiene	77-47-4	6100 UJ	200 R	210 R	260 U	1100 R	7900 UJ
Hexachloroethane	67-72-1	6100 U	200 U	210 U	260 U	1100 U	7900 U
Indeno(1,2,3-cd)pyrene	193-39-5	3800 J	460 J	790 J	2300 J	270 J	2600 J
Isophorone	78-59-1	6100 U	200 U	210 U	260 U	1100 U	7900 U
Methane, bis(2-chloroethoxy)	111-91-1	6100 U	200 U	210 U	260 U	1100 U	7900 U
Methylnaphthalene-2	91-57-6	3800 J	44 J	48 J	480	1200	9200
Naphthalene	91-20-3	3000 J	97 J	120 J	460	480 J	6200 J
Nitroaniline-2	88-74-4	12000 U	400 U	400 U	510 U	2200 U	15000 U
Nitroaniline-3	99-09-2	12000 U	400 U	400 U	510 U	2200 U	15000 U
Nitroaniline-4	100-01-6	12000 U	400 U	400 U	510 U	2200 U	15000 U
Nitrobenzene	98-95-3	6100 U	200 U	210 U	260 U	1100 U	7900 U
Nitrophenol-2	88-75-5	6100 U	200 U	210 U	260 U	1100 U	7900 U
Nitrophenol-4	100-02-7	12000 U	400 U	400 U	510 U	2200 U	15000 U
Nitroso-di-n-propyl-amine-N	621-64-7	6100 U	200 U	210 U	260 U	1100 U	7900 U
Nitrosodiphenylamine-n	86-30-6	6100 U	200 U	210 U	260 U	1100 U	7900 U
PCP (Pentachlorophenol)	87-86-5	12000 UJ	400 U	400 U	510 U	2200 U	15000 UJ
Phenanthrene	85-01-8	15000	900	650	4400	2400	110000
Phenol	108-95-2	6100 U	200 U	210 U	260 U	1100 U	7900 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	17000	770	720	2100	1800	1100 J
Phthalate, diethyl	84-66-2	6100 U	88 J	170 J	260 U	1100 U	7900 U
Phthalate, dimethyl	131-11-3	6100 U	200 U	210 U	260 U	1100 U	7900 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-19S	MW-20S	MW-20S	MW-20S	MW-20S	SB-39
Sample ID		MW-19S-6.0-6.8-3	D-3-05-14-09-05	MW-20S-0.5-1.5-3	MW-20S-15.0-16.0-3	MW-20S-26.0-27.0-3	D-3-05-08-09-02
Sample Date		05/13/2009	05/14/2009	05/14/2009	05/14/2009	05/14/2009	05/08/2009
Sample Interval		6 - 6.8 ft	0.5 - 1.5 ft	0.5 - 1.5 ft	15 - 16 ft	26 - 27 ft	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	13000	52 J	44 J	120 J	560 J	870 J
Phthalate, di-n-octyl	117-84-0	820 J	200 R	210 R	260 R	1100 R	7900 U
Pyrene	129-00-0	13000	2300	2300	9400	3400	35000
Tetrachlorobenzene-1,2,4,5	95-94-3	6100 U	22 J	40 J	260 U	120 J	7900 U
Tetrachlorophenol-2,3,4,6	58-90-2	6100 U	200 U	210 U	260 U	1100 U	7900 U
Trichlorophenol-2,4,5	95-95-4	6100 U	200 U	210 U	260 U	1100 U	7900 U
Trichlorophenol-2,4,6	88-06-2	6100 U	27 J	90 J	260 U	1100 U	7900 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-39	SB-39	SB-39	SB-40	SB-40	SB-40
Sample ID		SB-39-0.5-1.5-3	SB-39-10.5-11.5-3	SB-39-5.0-6.0-3	D-3-05-08-09-03	SB-40-0.5-1.5-3	SB-40-14.1-15.1-3
Sample Date		05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009
Sample Interval		0.5 - 1.5 FT	10.5 - 11.5 FT	5 - 6 FT	0.5 - 1.5 ft	0.5 - 1.5 FT	14.1 - 15.1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	710 J	2400	2700	100 J	130 J	49 J
Acenaphthylene	208-96-8	590 J	470 J	440 J	150 J	290	21 J
Acetophenone	98-86-2	1700 U	2300 U	1900 U	220 U	25 J	200 U
Anthracene	120-12-7	3900	3500	3200	300	400	45 J
Atrazine	1912-24-9	1700 U	2300 U	1900 U	220 U	220 U	200 U
Benzaldehyde	100-52-7	1700 U	2300 U	1900 U	79 J	120 J	200 U
Benzo(a)anthracene	56-55-3	6900	9100	5200	970	1400	140 J
Benzo(a)pyrene	50-32-8	6100	8200	5200	1200	1700	120 J
Benzo(b)fluoranthene	205-99-2	6200	8800	4700	1400	1800	130 J
Benzo(g,h,i)perylene	191-24-2	3200	3300	1700 J	360	560	41 J
Benzo(k)fluoranthene	207-08-9	5100	7900	4300	1100	1700	140 J
Biphenyl	92-52-4	1700 U	620 J	400 J	220 U	34 J	200 U
Bromophenyl-4 Phenyl Ether	101-55-3	1700 U	2300 U	1900 U	220 U	220 U	200 U
Butylbenzyl phthalate	85-68-7	1700 U	2300 U	1900 U	690	220 U	200 U
Caprolactam	105-60-2	1700 U	2300 U	1900 U	220 U	220 U	200 U
Carbazole	86-74-8	680 J	1000 J	1300 J	110 J	140 J	200 U
Chloroaniline-4	106-47-8	1700 U	2300 U	1900 U	220 U	220 U	200 U
Chloronaphthalene-2	91-58-7	1700 U	2300 U	1900 U	220 U	220 U	200 U
Chlorophenol-2	95-57-8	1700 U	2300 U	1900 U	220 U	220 U	200 U
Chlorophenyl-4 phenyl ether	7005-72-3	1700 U	2300 U	1900 U	220 U	220 U	200 U
Chrysene	218-01-9	7300	9700	6200	1100	1700	180 J
Cresol-4,6-dinitro-ortho	534-52-1	3400 U	4500 U	3700 U	420 U	430 U	380 U
Cresol-o	95-48-7	1700 U	2300 U	1900 U	220 U	220 U	200 U
Cresol-p	106-44-5	1700 U	2300 U	1900 U	220 U	29 J	200 U
Cresol-parachloro-meta	59-50-7	1700 U	2300 U	1900 U	220 U	220 U	200 U
Dibenzo(a,h)anthracene	53-70-3	830 J	1100 J	510 J	100 J	180 J	200 U
Dibenzofuran	132-64-9	740 J	1200 J	1400 J	60 J	82 J	200 U
Dichlorobenzidine-3,3	91-94-1	1700 U	2300 U	1900 U	220 U	220 U	200 U
Dichlorophenol-2,4	120-83-2	1700 U	2300 U	1900 U	220 U	220 U	200 U
Dimethylphenol-2,4	105-67-9	1700 U	2300 U	1900 U	220 U	220 U	200 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-39	SB-39	SB-39	SB-40	SB-40	SB-40
Sample ID		SB-39-0.5-1.5-3	SB-39-10.5-11.5-3	SB-39-5.0-6.0-3	D-3-05-08-09-03	SB-40-0.5-1.5-3	SB-40-14.1-15.1-3
Sample Date		05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009
Sample Interval		0.5 - 1.5 FT	10.5 - 11.5 FT	5 - 6 FT	0.5 - 1.5 ft	0.5 - 1.5 FT	14.1 - 15.1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	3400 U	4500 U	3700 U	420 U	430 U	380 U
Dinitrotoluene-2,4	121-14-2	1700 U	2300 U	1900 U	220 U	220 U	200 U
Dinitrotoluene-2,6	606-20-2	1700 U	2300 U	1900 U	220 U	220 U	200 U
Ether, bis(2-chloroethyl)	111-44-4	1700 U	2300 U	1900 U	220 U	220 U	200 U
Ether, bis-chloroisopropyl	108-60-1	1700 U	2300 U	1900 U	220 U	220 U	200 U
Fluoranthene	206-44-0	15000	19000	12000	2100	2700	380
Fluorene	86-73-7	1600 J	2600	2600	95 J	120 J	28 J
Hexachlorobenzene	118-74-1	1700 U	2300 U	1900 U	34 J	34 J	200 U
Hexachlorobutadiene	87-68-3	1700 U	2300 U	1900 U	220 U	220 U	200 U
Hexachlorocyclopentadiene	77-47-4	1700 UJ	2300 UJ	1900 UJ	220 UJ	220 UJ	200 UJ
Hexachloroethane	67-72-1	1700 U	2300 U	1900 U	220 U	220 U	200 U
Indeno(1,2,3-cd)pyrene	193-39-5	3100	3400	1600 J	360	540	40 J
Isophorone	78-59-1	1700 U	2300 U	1900 U	220 U	220 U	200 U
Methane, bis(2-chloroethoxy)	111-91-1	1700 U	2300 U	1900 U	220 U	220 U	200 U
Methylnaphthalene-2	91-57-6	180 J	1500 J	2000	51 J	80 J	21 J
Naphthalene	91-20-3	200 J	3100	1600 J	78 J	120 J	24 J
Nitroaniline-2	88-74-4	3400 U	4500 U	3700 U	420 U	430 U	380 U
Nitroaniline-3	99-09-2	3400 U	4500 U	3700 U	420 U	430 U	380 U
Nitroaniline-4	100-01-6	3400 U	4500 U	3700 U	420 U	430 U	380 U
Nitrobenzene	98-95-3	1700 U	2300 U	1900 U	220 U	220 U	200 U
Nitrophenol-2	88-75-5	1700 U	2300 U	1900 U	220 U	220 U	200 U
Nitrophenol-4	100-02-7	3400 U	4500 U	3700 U	420 U	430 U	380 U
Nitroso-di-n-propyl-amine-N	621-64-7	1700 U	2300 U	1900 U	220 U	220 U	200 U
Nitrosodiphenylamine-n	86-30-6	1700 U	2300 U	1900 U	220 U	220 U	200 U
PCP (Pentachlorophenol)	87-86-5	3400 U	4500 UJ	3700 U	420 U	430 U	380 U
Phenanthrene	85-01-8	16000	14000	12000	1100	1400	83 J
Phenol	108-95-2	1700 U	2300 U	1900 U	220 U	220 U	200 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	340 J	23000	21000	350	470	130 J
Phthalate, diethyl	84-66-2	1700 U	2300 U	1900 U	220 U	220 U	200 U
Phthalate, dimethyl	131-11-3	1700 U	2300 U	1900 U	220 U	220 U	200 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-39	SB-39	SB-39	SB-40	SB-40	SB-40
Sample ID		SB-39-0.5-1.5-3	SB-39-10.5-11.5-3	SB-39-5.0-6.0-3	D-3-05-08-09-03	SB-40-0.5-1.5-3	SB-40-14.1-15.1-3
Sample Date		05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009
Sample Interval		0.5 - 1.5 FT	10.5 - 11.5 FT	5 - 6 FT	0.5 - 1.5 ft	0.5 - 1.5 FT	14.1 - 15.1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	290 J	750 J	4100	550	490	200 U
Phthalate, di-n-octyl	117-84-0	1700 UJ	640 J	940 J	220 UJ	220 UJ	200 UJ
Pyrene	129-00-0	13000	19000	10000	1600	2100	310
Tetrachlorobenzene-1,2,4,5	95-94-3	1700 U	2300 U	1900 U	220 U	220 U	200 U
Tetrachlorophenol-2,3,4,6	58-90-2	1700 U	2300 U	1900 U	220 U	220 U	200 U
Trichlorophenol-2,4,5	95-95-4	1700 U	2300 U	1900 U	220 U	220 U	200 U
Trichlorophenol-2,4,6	88-06-2	1700 U	2300 U	1900 U	220 U	220 U	200 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-40	SB-41	SB-41	SB-41	SB-42	SB-42
Sample ID		SB-40-6.5-7.5-3	SB-41-0.5-1.5-3	SB-41-12.5-13.5-3	SB-41-30.5-31.5-3	SB-42-0.5-1.5-3	SB-42-2.0-3.0-3
Sample Date		05/08/2009	05/07/2009	05/07/2009	05/08/2009	05/07/2009	05/07/2009
Sample Interval		6.5 - 7.5 FT	0.5 - 1.5 FT	12.5 - 13.5 FT	30.5 - 31.5 FT	0.5 - 1.5 FT	2 - 3 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	5600	240 J	170 U	25000	440 J	7700
Acenaphthylene	208-96-8	240 J	1100	170 U	4100	1500	1300 J
Acetophenone	98-86-2	2300 U	67 J	170 U	4000 U	110 J	6900 U
Anthracene	120-12-7	9100	710	170 U	20000	1200	12000
Atrazine	1912-24-9	2300 U	470 U	170 U	4000 U	630 U	6900 U
Benzaldehyde	100-52-7	2300 U	470 U	170 U	4000 U	630 U	6900 U
Benzo(a)anthracene	56-55-3	9700	3000	170 U	19000	4400	18000
Benzo(a)pyrene	50-32-8	8200	3400	170 U	15000	4600	16000
Benzo(b)fluoranthene	205-99-2	8500	3700 J	170 U	13000	4600	15000
Benzo(g,h,I)perylene	191-24-2	2600	1400 J	170 U	3300 J	1600	5200 J
Benzo(k)fluoranthene	207-08-9	8200	3300	170 U	12000	4600	15000
Biphenyl	92-52-4	970 J	58 J	170 U	440 J	84 J	1200 J
Bromophenyl-4 Phenyl Ether	101-55-3	2300 U	470 U	170 U	4000 U	630 U	6900 U
Butylbenzyl phthalate	85-68-7	2300 U	470 U	170 U	4000 U	630 U	6900 U
Caprolactam	105-60-2	2300 U	470 U	170 U	4000 U	630 U	6900 U
Carbazole	86-74-8	3100	56 J	170 U	680 J	160 J	4900 J
Chloroaniline-4	106-47-8	2300 U	470 U	170 U	4000 U	630 U	6900 U
Chloronaphthalene-2	91-58-7	2300 U	470 U	170 U	4000 U	630 U	6900 U
Chlorophenol-2	95-57-8	2300 U	470 U	170 U	4000 U	630 U	6900 U
Chlorophenyl-4 phenyl ether	7005-72-3	2300 U	470 U	170 U	4000 U	630 U	6900 U
Chrysene	218-01-9	10000	3800	170 U	22000	5300	20000
Cresol-4,6-dinitro-ortho	534-52-1	4400 U	900 U	330 U	7800 U	1200 U	13000 U
Cresol-o	95-48-7	2300 U	470 U	170 U	4000 U	630 U	6900 U
Cresol-p	106-44-5	2300 U	470 U	170 U	4000 U	630 U	6900 U
Cresol-parachloro-meta	59-50-7	2300 U	470 U	170 U	4000 U	630 U	6900 U
Dibenzo(a,h)anthracene	53-70-3	900 J	420 J	170 U	1100 J	530 J	1700 J
Dibenzofuran	132-64-9	5200	67 J	170 U	1500 J	140 J	6100 J
Dichlorobenzidine-3,3	91-94-1	2300 U	470 U	170 U	4000 U	630 U	6900 U
Dichlorophenol-2,4	120-83-2	2300 U	470 U	170 U	4000 U	630 U	6900 U
Dimethylphenol-2,4	105-67-9	2300 U	470 U	170 U	4000 U	630 U	6900 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-40	SB-41	SB-41	SB-41	SB-42	SB-42
Sample ID		SB-40-6.5-7.5-3	SB-41-0.5-1.5-3	SB-41-12.5-13.5-3	SB-41-30.5-31.5-3	SB-42-0.5-1.5-3	SB-42-2.0-3.0-3
Sample Date		05/08/2009	05/07/2009	05/07/2009	05/08/2009	05/07/2009	05/07/2009
Sample Interval		6.5 - 7.5 FT	0.5 - 1.5 FT	12.5 - 13.5 FT	30.5 - 31.5 FT	0.5 - 1.5 FT	2 - 3 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	4400 U	900 U	330 U	7800 U	1200 U	13000 U
Dinitrotoluene-2,4	121-14-2	2300 U	470 U	170 U	4000 U	630 U	6900 U
Dinitrotoluene-2,6	606-20-2	2300 U	470 U	170 U	4000 U	630 U	6900 U
Ether, bis(2-chloroethyl)	111-44-4	2300 U	470 U	170 U	4000 U	630 U	6900 U
Ether, bis-chloroisopropyl	108-60-1	2300 U	470 U	170 U	4000 U	630 U	6900 U
Fluoranthene	206-44-0	27000	3400	170 U	41000	5500	39000
Fluorene	86-73-7	7400	470 U	170 U	7100	220 J	12000
Hexachlorobenzene	118-74-1	2300 U	470 U	170 U	4000 U	630 U	2700 J
Hexachlorobutadiene	87-68-3	2300 U	470 U	170 U	4000 U	630 U	6900 U
Hexachlorocyclopentadiene	77-47-4	2300 UJ	470 UJ	170 UJ	4000 UJ	630 UJ	6900 UJ
Hexachloroethane	67-72-1	2300 U	470 U	170 U	4000 U	630 U	6900 U
Indeno(1,2,3-cd)pyrene	193-39-5	2800	1300	170 U	3400 J	1600	5400 J
Isophorone	78-59-1	2300 U	470 U	170 U	4000 U	630 U	6900 U
Methane, bis(2-chloroethoxy)	111-91-1	2300 U	470 U	170 U	4000 U	630 U	6900 U
Methylnaphthalene-2	91-57-6	4300	230 J	170 U	5200	260 J	6600 J
Naphthalene	91-20-3	8600	260 J	170 U	3500 J	340 J	14000
Nitroaniline-2	88-74-4	4400 U	900 U	330 U	7800 U	1200 U	13000 U
Nitroaniline-3	99-09-2	4400 U	900 U	330 U	7800 U	1200 U	13000 U
Nitroaniline-4	100-01-6	4400 U	900 U	330 U	7800 U	1200 U	13000 U
Nitrobenzene	98-95-3	2300 U	470 U	170 U	4000 U	630 U	6900 U
Nitrophenol-2	88-75-5	2300 U	470 U	170 U	4000 U	630 U	6900 U
Nitrophenol-4	100-02-7	4400 U	900 U	330 U	7800 U	1200 U	13000 U
Nitroso-di-n-propyl-amine-N	621-64-7	2300 U	470 U	170 U	4000 U	630 U	6900 U
Nitrosodiphenylamine-n	86-30-6	2300 U	470 U	170 U	4000 U	630 U	6900 U
PCP (Pentachlorophenol)	87-86-5	4400 UJ	900 U	330 U	7800 U	1200 U	13000 U
Phenanthrene	85-01-8	29000	1400	170 U	55000	2800	44000
Phenol	108-95-2	2300 U	470 U	170 U	4000 U	630 U	6900 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	15000	82 J	170 U	4000 U	210 J	79000
Phthalate, diethyl	84-66-2	2300 U	470 U	170 U	4000 U	630 U	6900 U
Phthalate, dimethyl	131-11-3	2300 U	470 U	170 U	4000 U	630 U	6900 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-40	SB-41	SB-41	SB-41	SB-42	SB-42
Sample ID		SB-40-6.5-7.5-3	SB-41-0.5-1.5-3	SB-41-12.5-13.5-3	SB-41-30.5-31.5-3	SB-42-0.5-1.5-3	SB-42-2.0-3.0-3
Sample Date		05/08/2009	05/07/2009	05/07/2009	05/08/2009	05/07/2009	05/07/2009
Sample Interval		6.5 - 7.5 FT	0.5 - 1.5 FT	12.5 - 13.5 FT	30.5 - 31.5 FT	0.5 - 1.5 FT	2 - 3 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	2300 U	470 U	170 U	4000 U	160 J	75000
Phthalate, di-n-octyl	117-84-0	2300 U	470 U	170 UJ	4000 UJ	630 U	4200 J
Pyrene	129-00-0	21000	3500	170 U	38000	6400	33000
Tetrachlorobenzene-1,2,4,5	95-94-3	2300 U	470 U	170 U	4000 U	630 U	6900 U
Tetrachlorophenol-2,3,4,6	58-90-2	2300 U	470 U	170 U	4000 U	630 U	6900 U
Trichlorophenol-2,4,5	95-95-4	2300 U	470 U	170 U	4000 U	630 U	6900 UJ
Trichlorophenol-2,4,6	88-06-2	2300 U	470 U	170 U	4000 U	630 U	6900 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-42	SB-43	SB-43	SB-43	SB-44	SB-44
Sample ID		SB-42-32-33-3	SB-43-0.5-1.5-3	SB-43-11.5-12.5-3	SB-43-15.0-16.0-3	D-3-05-06-09-01	SB-44-0.5-1.0-3
Sample Date		05/07/2009	05/07/2009	05/07/2009	05/07/2009	05/06/2009	05/06/2009
Sample Interval		32 - 33 FT	0.5 - 1.5 FT	11.5 - 12.5 FT	15 - 16 FT	0.5 - 1.5 ft	0.5 - 1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	200 U	360 J	22000	1700	63 J	270 J
Acenaphthylene	208-96-8	200 U	480 J	2800 J	2000	220 U	160 J
Acetophenone	98-86-2	200 U	980 U	2200 J	1500 U	220 U	660 U
Anthracene	120-12-7	200 U	1100	47000	3200	150 J	690
Atrazine	1912-24-9	200 U	980 U	13000 U	1500 U	220 U	660 U
Benzaldehyde	100-52-7	200 U	980 U	13000 U	1500 U	220 U	660 U
Benzo(a)anthracene	56-55-3	200 U	4100	57000	8100	420	2700
Benzo(a)pyrene	50-32-8	200 U	4600	48000	9400	410	2900
Benzo(b)fluoranthene	205-99-2	200 U	4600	47000 J	7500	440	3300
Benzo(g,h,I)perylene	191-24-2	200 U	1800	27000 J	2700	190 J	970
Benzo(k)fluoranthene	207-08-9	200 U	4000	42000	9500	360	2500
Biphenyl	92-52-4	200 U	980 U	3100 J	150 J	220 U	660 U
Bromophenyl-4 Phenyl Ether	101-55-3	200 U	980 U	13000 U	1500 U	220 U	660 U
Butylbenzyl phthalate	85-68-7	200 U	980 U	13000 U	1500 U	220 U	660 U
Caprolactam	105-60-2	200 U	980 U	13000 U	1500 U	220 U	660 U
Carbazole	86-74-8	200 U	320 J	23000	530 J	66 J	290 J
Chloroaniline-4	106-47-8	200 U	980 U	13000 U	1500 U	220 U	660 U
Chloronaphthalene-2	91-58-7	200 U	980 U	13000 U	1500 U	220 U	660 U
Chlorophenol-2	95-57-8	200 U	980 U	13000 U	1500 U	220 U	660 U
Chlorophenyl-4 phenyl ether	7005-72-3	200 U	980 U	13000 U	1500 U	220 U	660 U
Chrysene	218-01-9	200 U	4700	61000	10000	480	3100
Cresol-4,6-dinitro-ortho	534-52-1	380 U	1900 U	27000 U	3000 U	430 U	1300 U
Cresol-o	95-48-7	200 U	980 U	13000 U	1500 U	220 U	660 U
Cresol-p	106-44-5	200 U	980 U	13000 U	1500 U	220 U	660 U
Cresol-parachloro-meta	59-50-7	200 U	980 U	13000 U	1500 U	220 U	660 U
Dibenzo(a,h)anthracene	53-70-3	200 U	590 J	8900 J	920 J	61 J	280 J
Dibenzofuran	132-64-9	200 U	170 J	20000	480 J	51 J	110 J
Dichlorobenzidine-3,3	91-94-1	200 U	980 U	13000 U	1500 U	220 U	660 U
Dichlorophenol-2,4	120-83-2	200 U	980 U	13000 U	1500 U	220 U	660 U
Dimethylphenol-2,4	105-67-9	200 U	980 U	13000 U	1500 U	220 U	660 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-42	SB-43	SB-43	SB-43	SB-44	SB-44
Sample ID		SB-42-32-33-3	SB-43-0.5-1.5-3	SB-43-11.5-12.5-3	SB-43-15.0-16.0-3	D-3-05-06-09-01	SB-44-0.5-1.0-3
Sample Date		05/07/2009	05/07/2009	05/07/2009	05/07/2009	05/06/2009	05/06/2009
Sample Interval		32 - 33 FT	0.5 - 1.5 FT	11.5 - 12.5 FT	15 - 16 FT	0.5 - 1.5 ft	0.5 - 1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	380 U	1900 U	27000 U	3000 U	430 U	1300 U
Dinitrotoluene-2,4	121-14-2	200 U	980 U	13000 U	1500 U	220 U	660 U
Dinitrotoluene-2,6	606-20-2	200 U	980 U	13000 U	1500 U	220 U	660 U
Ether, bis(2-chloroethyl)	111-44-4	200 U	980 U	13000 U	1500 U	220 U	660 U
Ether, bis-chloroisopropyl	108-60-1	200 U	980 U	13000 U	1500 U	220 U	660 U
Fluoranthene	206-44-0	200 U	8000	160000	14000	760	5700
Fluorene	86-73-7	200 U	380 J	34000	1300 J	76 J	320 J
Hexachlorobenzene	118-74-1	200 U	150 J	13000 U	1500 U	220 U	660 U
Hexachlorobutadiene	87-68-3	200 U	980 U	13000 U	1500 U	220 U	660 U
Hexachlorocyclopentadiene	77-47-4	200 UJ	980 UJ	13000 UJ	1500 UJ	220 UJ	660 UJ
Hexachloroethane	67-72-1	200 U	980 U	13000 U	1500 U	220 U	660 U
Indeno(1,2,3-cd)pyrene	193-39-5	200 U	1800	26000	2700	200 J	1000
Isophorone	78-59-1	200 U	980 U	13000 U	1500 U	220 U	400 J
Methane, bis(2-chloroethoxy)	111-91-1	200 U	980 U	13000 U	1500 U	220 U	660 U
Methylnaphthalene-2	91-57-6	200 U	130 J	14000	680 J	220 U	88 J
Naphthalene	91-20-3	200 U	180 J	41000	850 J	25 J	170 J
Nitroaniline-2	88-74-4	380 U	1900 U	27000 U	3000 U	430 U	1300 U
Nitroaniline-3	99-09-2	380 U	1900 U	27000 U	3000 U	430 U	1300 U
Nitroaniline-4	100-01-6	380 U	1900 U	27000 U	3000 U	430 U	1300 U
Nitrobenzene	98-95-3	200 U	980 U	13000 U	1500 U	220 U	660 U
Nitrophenol-2	88-75-5	200 U	980 U	13000 U	1500 U	220 U	660 U
Nitrophenol-4	100-02-7	380 U	1900 U	27000 U	3000 U	430 U	1300 U
Nitroso-di-n-propyl-amine-N	621-64-7	200 U	980 U	13000 U	1500 U	220 U	660 U
Nitrosodiphenylamine-n	86-30-6	200 U	980 U	13000 U	1500 U	220 U	660 U
PCP (Pentachlorophenol)	87-86-5	380 U	1900 U	27000 U	3000 U	430 U	1300 U
Phenanthrene	85-01-8	200 U	4400	170000	7900	770	3500
Phenol	108-95-2	200 U	980 U	13000 U	1500 U	220 U	660 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	200 U	1000	2100 J	1100 J	110 J	400 J
Phthalate, diethyl	84-66-2	200 U	980 U	13000 U	1500 U	220 U	660 U
Phthalate, dimethyl	131-11-3	200 U	980 U	13000 U	1500 U	220 U	660 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-42	SB-43	SB-43	SB-43	SB-44	SB-44
Sample ID		SB-42-32-33-3	SB-43-0.5-1.5-3	SB-43-11.5-12.5-3	SB-43-15.0-16.0-3	D-3-05-06-09-01	SB-44-0.5-1.0-3
Sample Date		05/07/2009	05/07/2009	05/07/2009	05/07/2009	05/06/2009	05/06/2009
Sample Interval		32 - 33 FT	0.5 - 1.5 FT	11.5 - 12.5 FT	15 - 16 FT	0.5 - 1.5 ft	0.5 - 1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	200 U	1700	13000 U	170 J	220 U	6000
Phthalate, di-n-octyl	117-84-0	200 UJ	980 U	13000 U	1500 UJ	220 U	660 U
Pyrene	129-00-0	200 U	7500	110000	13000	870	5200
Tetrachlorobenzene-1,2,4,5	95-94-3	200 U	980 U	13000 U	1500 U	220 U	660 U
Tetrachlorophenol-2,3,4,6	58-90-2	200 U	980 U	13000 U	1500 U	220 U	660 U
Trichlorophenol-2,4,5	95-95-4	200 U	980 UJ	13000 U	1500 U	220 UJ	660 UJ
Trichlorophenol-2,4,6	88-06-2	200 U	980 U	13000 U	1500 U	220 U	660 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-44	SB-44	SB-45	SB-45	SB-45	SB-46
Sample ID		SB-44-13.1-13.6-3	SB-44-6.2-6.7-3	SB-45-15.7-16.2-3	SB-45-2.0-2.5-3	SB-45-6.5-7.0-3	SB-46-0.5-1.5-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		13.1 - 13.6 FT	6.2 - 6.7 FT	15.7 - 16.2 FT	2 - 2.5 FT	6.5 - 7 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	7100	29 J	5400	600	74000	610 J
Acenaphthylene	208-96-8	490 J	200 U	530 J	240 U	5800 J	630 J
Acetophenone	98-86-2	4200 U	200 U	2200 U	240 U	14000 U	690 U
Anthracene	120-12-7	8600	200 U	3200	410	54000	1800
Atrazine	1912-24-9	4200 U	200 U	2200 U	240 U	14000 U	690 U
Benzaldehyde	100-52-7	4200 U	200 U	2200 U	240 U	14000 U	690 U
Benzo(a)anthracene	56-55-3	11000	34 J	3500	1300	47000	4500
Benzo(a)pyrene	50-32-8	8700	31 J	3000	1100	43000	4900
Benzo(b)fluoranthene	205-99-2	8800	31 J	2900	1300	24000	5400
Benzo(g,h,I)perylene	191-24-2	3300 J	23 J	670 J	400	13000 J	1300 J
Benzo(k)fluoranthene	207-08-9	6900	22 J	2200	980	27000	3500
Biphenyl	92-52-4	4200 U	200 U	940 J	35 J	3900 J	110 J
Bromophenyl-4 Phenyl Ether	101-55-3	4200 U	200 U	2200 U	240 U	14000 U	690 U
Butylbenzyl phthalate	85-68-7	4200 U	200 U	2200 U	240 U	14000 U	690 U
Caprolactam	105-60-2	4200 U	200 U	2200 U	240 U	14000 U	690 U
Carbazole	86-74-8	2700 J	200 U	2200 U	60 J	14000 U	390 J
Chloroaniline-4	106-47-8	4200 U	200 U	2200 U	240 U	14000 U	690 U
Chloronaphthalene-2	91-58-7	4200 U	200 U	2200 U	240 U	14000 U	690 U
Chlorophenol-2	95-57-8	4200 U	200 U	2200 U	240 U	14000 U	690 U
Chlorophenyl-4 phenyl ether	7005-72-3	4200 U	200 U	2200 U	240 U	14000 U	690 U
Chrysene	218-01-9	13000	40 J	4100	1400	54000	5000
Cresol-4,6-dinitro-ortho	534-52-1	8200 U	390 U	4200 U	470 U	29000 U	1300 U
Cresol-o	95-48-7	4200 U	200 U	2200 U	240 U	14000 U	690 U
Cresol-p	106-44-5	4200 U	200 U	2200 U	240 U	14000 U	690 U
Cresol-parachloro-meta	59-50-7	4200 U	200 U	2200 U	240 U	14000 U	690 U
Dibenzo(a,h)anthracene	53-70-3	1000 J	200 U	220 J	130 J	4700 J	370 J
Dibenzofuran	132-64-9	4000 J	200 U	590 J	290	4900 J	380 J
Dichlorobenzidine-3,3	91-94-1	4200 U	200 U	2200 U	240 U	14000 U	690 U
Dichlorophenol-2,4	120-83-2	4200 U	200 U	2200 U	150 J	14000 U	690 U
Dimethylphenol-2,4	105-67-9	4200 U	200 U	2200 U	240 U	14000 U	690 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-44	SB-44	SB-45	SB-45	SB-45	SB-46
Sample ID		SB-44-13.1-13.6-3	SB-44-6.2-6.7-3	SB-45-15.7-16.2-3	SB-45-2.0-2.5-3	SB-45-6.5-7.0-3	SB-46-0.5-1.5-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		13.1 - 13.6 FT	6.2 - 6.7 FT	15.7 - 16.2 FT	2 - 2.5 FT	6.5 - 7 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	8200 U	390 U	4200 U	470 U	29000 U	1300 U
Dinitrotoluene-2,4	121-14-2	4200 U	200 U	2200 U	240 U	14000 U	690 U
Dinitrotoluene-2,6	606-20-2	4200 U	200 U	2200 U	240 U	14000 U	690 U
Ether, bis(2-chloroethyl)	111-44-4	4200 U	200 U	2200 U	240 U	14000 U	690 U
Ether, bis-chloroisopropyl	108-60-1	4200 U	200 U	2200 U	240 U	14000 U	690 U
Fluoranthene	206-44-0	26000	58 J	6300	2500	70000	8400
Fluorene	86-73-7	8500	25 J	3100	280	42000	830
Hexachlorobenzene	118-74-1	4200 U	200 U	840 J	28 J	14000 U	690 U
Hexachlorobutadiene	87-68-3	4200 U	200 U	2200 U	240 U	14000 U	690 U
Hexachlorocyclopentadiene	77-47-4	4200 UJ	200 UJ	2200 UJ	240 UJ	14000 UJ	690 UJ
Hexachloroethane	67-72-1	4200 U	200 U	2200 U	240 U	14000 U	690 U
Indeno(1,2,3-cd)pyrene	193-39-5	3300 J	200 U	660 J	400	13000 J	1300
Isophorone	78-59-1	4200 U	200 U	2200 U	240 U	14000 U	690 U
Methane, bis(2-chloroethoxy)	111-91-1	4200 U	200 U	2200 U	240 U	14000 U	690 U
Methylnaphthalene-2	91-57-6	24000	200 U	13000	240 U	94000	270 J
Naphthalene	91-20-3	4900	39 J	28000	42 J	99000	390 J
Nitroaniline-2	88-74-4	8200 U	390 U	4200 U	470 U	29000 U	1300 U
Nitroaniline-3	99-09-2	8200 U	390 U	4200 U	470 U	29000 U	1300 U
Nitroaniline-4	100-01-6	8200 U	390 U	4200 U	470 U	29000 U	1300 U
Nitrobenzene	98-95-3	4200 U	200 U	2200 U	240 U	14000 U	690 U
Nitrophenol-2	88-75-5	4200 U	200 U	2200 U	240 U	14000 U	690 U
Nitrophenol-4	100-02-7	8200 U	390 U	4200 U	470 U	29000 U	1300 U
Nitroso-di-n-propyl-amine-N	621-64-7	4200 U	200 U	2200 U	240 U	14000 U	690 U
Nitrosodiphenylamine-n	86-30-6	4200 U	200 U	2200 U	240 U	14000 U	690 U
PCP (Pentachlorophenol)	87-86-5	8200 UJ	390 U	4200 U	470 U	29000 U	1300 UJ
Phenanthrene	85-01-8	33000	200 U	10000	400	160000	5500
Phenol	108-95-2	4200 U	200 U	2200 U	240 U	14000 U	690 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	6800	140 J	1900 J	690	14000 U	3800
Phthalate, diethyl	84-66-2	4200 U	200 U	2200 U	240 U	14000 U	70 J
Phthalate, dimethyl	131-11-3	4200 U	200 U	2200 U	240 U	14000 U	690 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-44	SB-44	SB-45	SB-45	SB-45	SB-46
Sample ID		SB-44-13.1-13.6-3	SB-44-6.2-6.7-3	SB-45-15.7-16.2-3	SB-45-2.0-2.5-3	SB-45-6.5-7.0-3	SB-46-0.5-1.5-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		13.1 - 13.6 FT	6.2 - 6.7 FT	15.7 - 16.2 FT	2 - 2.5 FT	6.5 - 7 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	4200 U	39 J	800 J	240 U	14000 U	79 J
Phthalate, di-n-octyl	117-84-0	4200 U	200 U	2200 U	240 U	14000 U	690 U
Pyrene	129-00-0	25000	90 J	7100	2400	95000	7600
Tetrachlorobenzene-1,2,4,5	95-94-3	4200 U	200 U	490 J	220 J	14000 U	690 U
Tetrachlorophenol-2,3,4,6	58-90-2	4200 U	200 U	2200 U	240 U	14000 U	690 U
Trichlorophenol-2,4,5	95-95-4	4200 U	200 U	2200 UJ	240 UJ	14000 UJ	690 U
Trichlorophenol-2,4,6	88-06-2	4200 U	200 U	2200 U	160 J	14000 U	690 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-46	SB-46	SB-47	SB-47	SB-47	SB-48
Sample ID		SB-46-21.0-22.0-3	SB-46-49.0-50.0-3	SB-47-0.5-1.5-3	SB-47-15.5-16.5-3	SB-47-27.0-28.0-3	SB-48-0.5-1.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/06/2009
Sample Interval		21 - 22 FT	49 - 50 FT	0.5 - 1.5 FT	15.5 - 16.5 FT	27 - 28 FT	0.5 - 1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	2200	200 U	21 J	11000	2400	51 J
Acenaphthylene	208-96-8	380 J	200 U	84 J	630 J	210 J	47 J
Acetophenone	98-86-2	1300 U	200 U	210 U	2000 U	1100 U	71 J
Anthracene	120-12-7	1900	200 U	96 J	7800	1800	160 J
Atrazine	1912-24-9	1300 U	200 U	210 U	2000 U	1100 U	220 U
Benzaldehyde	100-52-7	1300 U	200 U	210 U	2000 U	1100 U	220 U
Benzo(a)anthracene	56-55-3	3500	200 U	390	14000	2700 J	410
Benzo(a)pyrene	50-32-8	3300	200 U	500	13000	2500	430
Benzo(b)fluoranthene	205-99-2	3400	200 U	460	12000	2700	430
Benzo(g,h,i)perylene	191-24-2	820 J	200 U	240	3800	770 J	160 J
Benzo(k)fluoranthene	207-08-9	2500	200 U	510	12000	2000	460
Biphenyl	92-52-4	1300 U	200 U	210 U	1200 J	920 J	220 U
Bromophenyl-4 Phenyl Ether	101-55-3	1300 U	200 U	210 U	2000 U	1100 U	220 U
Butylbenzyl phthalate	85-68-7	1300 U	200 U	210 U	2000 U	1100 U	220 U
Caprolactam	105-60-2	1300 U	200 U	210 U	2000 U	1100 U	220 U
Carbazole	86-74-8	230 J	200 U	210 U	3400	550 J	37 J
Chloroaniline-4	106-47-8	1300 U	200 U	210 U	2000 U	1100 U	220 U
Chloronaphthalene-2	91-58-7	1300 U	200 U	210 U	2000 U	1100 U	220 U
Chlorophenol-2	95-57-8	1300 U	200 U	210 U	2000 U	1100 U	220 U
Chlorophenyl-4 phenyl ether	7005-72-3	1300 U	200 U	210 U	2000 U	1100 U	220 U
Chrysene	218-01-9	4400	200 U	500	16000	3200 J	460
Cresol-4,6-dinitro-ortho	534-52-1	2600 U	390 U	400 U	3900 U	2200 U	430 U
Cresol-o	95-48-7	1300 U	200 U	210 U	2000 U	1100 U	220 U
Cresol-p	106-44-5	1300 U	200 U	210 U	2000 U	1100 U	220 U
Cresol-parachloro-meta	59-50-7	1300 U	200 U	210 U	2000 U	1100 U	220 U
Dibenzo(a,h)anthracene	53-70-3	280 J	200 U	60 J	1000 J	190 J	39 J
Dibenzofuran	132-64-9	370 J	200 U	23 J	5600	1900	33 J
Dichlorobenzidine-3,3	91-94-1	1300 U	200 U	210 U	2000 U	1100 U	220 U
Dichlorophenol-2,4	120-83-2	1300 U	200 U	210 U	2000 U	1100 U	220 U
Dimethylphenol-2,4	105-67-9	1300 U	200 U	210 U	470 J	180 J	220 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-46	SB-46	SB-47	SB-47	SB-47	SB-48
Sample ID		SB-46-21.0-22.0-3	SB-46-49.0-50.0-3	SB-47-0.5-1.5-3	SB-47-15.5-16.5-3	SB-47-27.0-28.0-3	SB-48-0.5-1.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/06/2009
Sample Interval		21 - 22 FT	49 - 50 FT	0.5 - 1.5 FT	15.5 - 16.5 FT	27 - 28 FT	0.5 - 1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	2600 U	390 U	400 U	3900 U	2200 U	430 U
Dinitrotoluene-2,4	121-14-2	1300 U	200 U	210 U	2000 U	1100 U	220 U
Dinitrotoluene-2,6	606-20-2	1300 U	200 U	210 U	2000 U	1100 U	220 U
Ether, bis(2-chloroethyl)	111-44-4	1300 U	200 U	210 U	2000 U	1100 U	220 U
Ether, bis-chloroisopropyl	108-60-1	1300 U	200 U	210 U	2000 U	1100 U	220 U
Fluoranthene	206-44-0	5300	200 U	430	34000	7600 J	990
Fluorene	86-73-7	1200 J	200 U	210 U	7400	2100	72 J
Hexachlorobenzene	118-74-1	1300 U	200 U	210 U	2000 U	1100 U	220 U
Hexachlorobutadiene	87-68-3	1300 U	200 U	210 U	2000 U	1100 U	220 U
Hexachlorocyclopentadiene	77-47-4	1300 UJ	200 U	210 U	2000 UJ	1100 UJ	220 UJ
Hexachloroethane	67-72-1	1300 U	200 U	210 U	2000 U	1100 U	220 U
Indeno(1,2,3-cd)pyrene	193-39-5	860 J	200 U	220	3700	800 J	150 J
Isophorone	78-59-1	1300 U	200 U	210 U	2000 U	1100 U	220 U
Methane, bis(2-chloroethoxy)	111-91-1	1300 U	200 U	210 U	2000 U	1100 U	220 U
Methylnaphthalene-2	91-57-6	1600	200 U	32 J	8700 J	6100	22 J
Naphthalene	91-20-3	440 J	200 U	110 J	130000	190000	22 J
Nitroaniline-2	88-74-4	2600 U	390 U	400 U	3900 U	2200 U	430 U
Nitroaniline-3	99-09-2	2600 U	390 U	400 U	3900 U	2200 U	430 U
Nitroaniline-4	100-01-6	2600 U	390 U	400 U	3900 U	2200 U	430 U
Nitrobenzene	98-95-3	1300 U	200 U	210 U	2000 U	1100 U	220 U
Nitrophenol-2	88-75-5	1300 U	200 U	210 U	2000 U	1100 U	220 U
Nitrophenol-4	100-02-7	2600 U	390 U	400 U	3900 U	2200 U	430 U
Nitroso-di-n-propyl-amine-N	621-64-7	1300 U	200 U	210 U	2000 U	1100 U	220 U
Nitrosodiphenylamine-n	86-30-6	1300 U	200 U	210 U	2000 U	1100 U	220 U
PCP (Pentachlorophenol)	87-86-5	2600 UJ	390 U	400 U	3900 UJ	2200 U	430 U
Phenanthrene	85-01-8	5700	200 U	210	34000	7200	650
Phenol	108-95-2	1300 U	200 U	210 U	2000 U	1100 U	220 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	14000	200 U	210 U	5100 U	3600 U	250
Phthalate, diethyl	84-66-2	1300 U	200 U	210 U	2000 U	1100 U	220 U
Phthalate, dimethyl	131-11-3	1300 U	200 U	210 U	2000 U	1100 U	220 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-46	SB-46	SB-47	SB-47	SB-47	SB-48
Sample ID		SB-46-21.0-22.0-3	SB-46-49.0-50.0-3	SB-47-0.5-1.5-3	SB-47-15.5-16.5-3	SB-47-27.0-28.0-3	SB-48-0.5-1.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/06/2009
Sample Interval		21 - 22 FT	49 - 50 FT	0.5 - 1.5 FT	15.5 - 16.5 FT	27 - 28 FT	0.5 - 1 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	1300 U	200 U	39 J	2000 U	1100 U	23 J
Phthalate, di-n-octyl	117-84-0	630 J	200 U	210 U	2000 U	130 J	220 U
Pyrene	129-00-0	6100	200 U	400	28000	5800 J	840
Tetrachlorobenzene-1,2,4,5	95-94-3	1300 U	200 U	210 U	2000 U	1100 U	27 J
Tetrachlorophenol-2,3,4,6	58-90-2	1300 U	200 U	210 U	2000 U	1100 U	220 U
Trichlorophenol-2,4,5	95-95-4	1300 U	200 U	210 U	2000 UJ	1100 U	220 U
Trichlorophenol-2,4,6	88-06-2	1300 U	200 U	210 U	2000 U	1100 U	220 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-48	SB-48	SB-49	SB-49	SB-49	SB-50
Sample ID		SB-48-11.0-11.5-3	SB-48-20-20.5	SB-49-0.5-1.0-3	SB-49-15.1-15.6-3	SB-49-20.0-20.5-3	D-3-05-11-09-04
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		11 - 11.5 FT	20 - 20.5 FT	0.5 - 1 FT	15.1 - 15.6 FT	20 - 20.5 FT	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	2600 J	4000 J	1900 J	200 U	1200 J	570 J
Acenaphthylene	208-96-8	8300 U	910 J	500 J	200 U	1300 U	280 J
Acetophenone	98-86-2	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Anthracene	120-12-7	1200 J	3300	5800	200 U	630 J	530 J
Atrazine	1912-24-9	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Benzaldehyde	100-52-7	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Benzo(a)anthracene	56-55-3	1300 J	4600	14000	22 J	820 J	1600
Benzo(a)pyrene	50-32-8	1100 J	4200	13000	24 J	610 J	1900
Benzo(b)fluoranthene	205-99-2	1100 J	3200	12000	31 J	700 J	1700
Benzo(g,h,I)perylene	191-24-2	8300 U	1200	5200	200 U	240 J	640 J
Benzo(k)fluoranthene	207-08-9	1300 J	4500	9400	200 U	500 J	2000
Biphenyl	92-52-4	1800 J	1000 U	2200 U	200 U	530 J	650 U
Bromophenyl-4 Phenyl Ether	101-55-3	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Butylbenzyl phthalate	85-68-7	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Caprolactam	105-60-2	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Carbazole	86-74-8	8300 U	200 J	1000 J	200 U	1300 U	180 J
Chloroaniline-4	106-47-8	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Chloronaphthalene-2	91-58-7	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Chlorophenol-2	95-57-8	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Chlorophenyl-4 phenyl ether	7005-72-3	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Chrysene	218-01-9	1600 J	5400	16000	27 J	980 J	1900
Cresol-4,6-dinitro-ortho	534-52-1	16000 U	2000 U	4300 U	390 U	2600 U	1300 U
Cresol-o	95-48-7	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Cresol-p	106-44-5	8300 U	1000 U	2200 U	200 U	1300 U	78 J
Cresol-parachloro-meta	59-50-7	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Dibenzo(a,h)anthracene	53-70-3	8300 U	370 J	1600 J	200 U	1300 U	190 J
Dibenzofuran	132-64-9	3800 J	510 J	1100 J	200 U	300 J	150 J
Dichlorobenzidine-3,3	91-94-1	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Dichlorophenol-2,4	120-83-2	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Dimethylphenol-2,4	105-67-9	8300 U	1000 U	2200 U	200 U	1300 U	130 J

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-48	SB-48	SB-49	SB-49	SB-49	SB-50
Sample ID		SB-48-11.0-11.5-3	SB-48-20-20.5	SB-49-0.5-1.0-3	SB-49-15.1-15.6-3	SB-49-20.0-20.5-3	D-3-05-11-09-04
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		11 - 11.5 FT	20 - 20.5 FT	0.5 - 1 FT	15.1 - 15.6 FT	20 - 20.5 FT	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	16000 U	2000 U	4300 U	390 U	2600 U	1300 U
Dinitrotoluene-2,4	121-14-2	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Dinitrotoluene-2,6	606-20-2	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Ether, bis(2-chloroethyl)	111-44-4	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Ether, bis-chloroisopropyl	108-60-1	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Fluoranthene	206-44-0	3600 J	9200	27000	25 J	1600	3200
Fluorene	86-73-7	3300 J	2800	2200	200 U	1100 J	290 J
Hexachlorobenzene	118-74-1	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Hexachlorobutadiene	87-68-3	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Hexachlorocyclopentadiene	77-47-4	8300 UJ	1000 UJ	2200 UJ	200 UJ	1300 UJ	650 UJ
Hexachloroethane	67-72-1	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Indeno(1,2,3-cd)pyrene	193-39-5	8300 U	1000 J	5100	200 U	150 J	610 J
Isophorone	78-59-1	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Methane, bis(2-chloroethoxy)	111-91-1	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Methylnaphthalene-2	91-57-6	13000	630 J	660 J	200 U	7700	170 J
Naphthalene	91-20-3	70000	550 J	780 J	200 U	19000	250 J
Nitroaniline-2	88-74-4	16000 U	2000 U	4300 U	390 U	2600 U	1300 U
Nitroaniline-3	99-09-2	16000 U	2000 U	4300 U	390 U	2600 U	1300 U
Nitroaniline-4	100-01-6	16000 U	2000 U	4300 U	390 U	2600 U	1300 U
Nitrobenzene	98-95-3	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Nitrophenol-2	88-75-5	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Nitrophenol-4	100-02-7	16000 U	2000 U	4300 U	390 U	2600 U	1300 U
Nitroso-di-n-propyl-amine-N	621-64-7	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Nitrosodiphenylamine-n	86-30-6	8300 U	1000 U	2200 U	200 U	1300 U	650 U
PCP (Pentachlorophenol)	87-86-5	16000 U	2000 U	4300 U	390 U	2600 U	1300 U
Phenanthrene	85-01-8	4900 J	9500	23000	200 U	2900	1400
Phenol	108-95-2	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	96000	1300	2200 U	110 J	1400	6100
Phthalate, diethyl	84-66-2	8300 U	1000 U	2200 U	200 U	1300 U	100 J
Phthalate, dimethyl	131-11-3	8300 U	1000 U	2200 U	200 U	1300 U	650 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-48	SB-48	SB-49	SB-49	SB-49	SB-50
Sample ID		SB-48-11.0-11.5-3	SB-48-20-20.5	SB-49-0.5-1.0-3	SB-49-15.1-15.6-3	SB-49-20.0-20.5-3	D-3-05-11-09-04
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009
Sample Interval		11 - 11.5 FT	20 - 20.5 FT	0.5 - 1 FT	15.1 - 15.6 FT	20 - 20.5 FT	0.5 - 1.5 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	8300 U	1000 U	2200 U	200 U	310 J	650 U
Phthalate, di-n-octyl	117-84-0	8300 U	1000 U	2200 U	200 U	1300 U	280 J
Pyrene	129-00-0	2800 J	12000	33000	44 J	1800	2800
Tetrachlorobenzene-1,2,4,5	95-94-3	8300 U	1000 U	2200 U	200 U	270 J	650 U
Tetrachlorophenol-2,3,4,6	58-90-2	8300 U	1000 U	2200 U	200 U	1300 U	650 U
Trichlorophenol-2,4,5	95-95-4	8300 U	1000 U	2200 UJ	200 U	1300 U	650 U
Trichlorophenol-2,4,6	88-06-2	8300 U	1000 U	2200 U	200 U	1300 U	650 U

Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-50	SB-50	SB-50	SB-51	SB-51	SB-51
Sample ID		SB-50-0.5-1.5-3	SB-50-20.0-21.0-3	SB-50-29.0-30.0-3	SB-51-0.5-1.5-3	SB-51-16.0-17.0-3	SB-51-25.0-26.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009
Sample Interval		0.5 - 1.5 FT	20 - 21 FT	29 - 30 FT	0.5 - 1.5 FT	16 - 17 FT	25 - 26 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	230	4400	790	160 J	2600 J	2800
Acenaphthylene	208-96-8	120 J	590 J	160 J	630	800 J	960 J
Acetophenone	98-86-2	200 U	2400 U	210 U	410 U	2600 U	2700 U
Anthracene	120-12-7	320	2700	510	360 J	2600 J	2400 J
Atrazine	1912-24-9	200 U	2400 U	210 U	410 U	2600 U	2700 U
Benzaldehyde	100-52-7	200 U	2400 U	210 U	410 U	2600 U	2700 U
Benzo(a)anthracene	56-55-3	940	3300	770	1500	2500 J	4400
Benzo(a)pyrene	50-32-8	1200	3000	870	2300	2200 J	4300
Benzo(b)fluoranthene	205-99-2	1200	2600	690	2200	2500 J	4400
Benzo(g,h,I)perylene	191-24-2	340	810 J	260	1200	620 J	1200 J
Benzo(k)fluoranthene	207-08-9	1100	2900	970	2500	2000 J	4300
Biphenyl	92-52-4	32 J	2400 U	47 J	57 J	430 J	380 J
Bromophenyl-4 Phenyl Ether	101-55-3	200 U	2400 U	210 U	410 U	2600 U	2700 U
Butylbenzyl phthalate	85-68-7	200 U	2400 U	210 U	190 J	2600 U	2700 U
Caprolactam	105-60-2	200 U	2400 U	210 U	410 U	2600 U	2700 U
Carbazole	86-74-8	120 J	2400 U	42 J	57 J	420 J	440 J
Chloroaniline-4	106-47-8	200 U	2400 U	210 U	410 U	2600 U	2700 U
Chloronaphthalene-2	91-58-7	200 U	2400 U	210 U	410 U	2600 U	2700 U
Chlorophenol-2	95-57-8	200 U	2400 U	210 U	410 U	2600 U	2700 U
Chlorophenyl-4 phenyl ether	7005-72-3	200 U	2400 U	210 U	410 U	2600 U	2700 U
Chrysene	218-01-9	1200	3900	1000	1900	2900	5300
Cresol-4,6-dinitro-ortho	534-52-1	400 U	4600 U	410 U	790 U	5100 U	5200 U
Cresol-o	95-48-7	200 U	2400 U	210 U	410 U	2600 U	2700 U
Cresol-p	106-44-5	41 J	2400 U	210 U	410 U	2600 U	2700 U
Cresol-parachloro-meta	59-50-7	200 U	2400 U	210 U	410 U	2600 U	2700 U
Dibenzo(a,h)anthracene	53-70-3	83 J	2400 U	70 J	270 J	2600 U	370 J
Dibenzofuran	132-64-9	75 J	820 J	160 J	69 J	1400 J	1200 J
Dichlorobenzidine-3,3	91-94-1	200 U	2400 U	210 U	410 U	2600 U	2700 U
Dichlorophenol-2,4	120-83-2	200 U	2400 U	210 U	410 U	2600 U	2700 U
Dimethylphenol-2,4	105-67-9	65 J	2400 U	210 U	410 U	2600 U	2700 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-50	SB-50	SB-50	SB-51	SB-51	SB-51
Sample ID		SB-50-0.5-1.5-3	SB-50-20.0-21.0-3	SB-50-29.0-30.0-3	SB-51-0.5-1.5-3	SB-51-16.0-17.0-3	SB-51-25.0-26.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009
Sample Interval		0.5 - 1.5 FT	20 - 21 FT	29 - 30 FT	0.5 - 1.5 FT	16 - 17 FT	25 - 26 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	400 U	4600 U	410 U	790 U	5100 U	5200 U
Dinitrotoluene-2,4	121-14-2	200 U	2400 U	210 U	410 U	2600 U	2700 U
Dinitrotoluene-2,6	606-20-2	200 U	2400 U	210 U	410 U	2600 U	2700 U
Ether, bis(2-chloroethyl)	111-44-4	200 U	2400 U	210 U	410 U	2600 U	2700 U
Ether, bis-chloroisopropyl	108-60-1	200 U	2400 U	210 U	410 U	2600 U	2700 U
Fluoranthene	206-44-0	1700	6500	1600	2000	5700	8600
Fluorene	86-73-7	150 J	3000	560	110 J	2300 J	2300 J
Hexachlorobenzene	118-74-1	200 U	2400 U	210 U	410 U	2600 U	2700 U
Hexachlorobutadiene	87-68-3	200 U	2400 U	210 U	410 U	2600 U	2700 U
Hexachlorocyclopentadiene	77-47-4	200 U	2400 UJ	210 U	410 UJ	2600 UJ	2700 UJ
Hexachloroethane	67-72-1	200 U	2400 U	210 U	410 U	2600 U	2700 U
Indeno(1,2,3-cd)pyrene	193-39-5	330	760 J	220	900	630 J	1300 J
Isophorone	78-59-1	200 U	2400 U	210 U	410 U	2600 U	2700 U
Methane, bis(2-chloroethoxy)	111-91-1	200 U	2400 U	210 U	410 U	2600 U	2700 U
Methylnaphthalene-2	91-57-6	94 J	7200	930	250 J	4200	3600
Naphthalene	91-20-3	170 J	1800 J	210	400 J	34000	32000
Nitroaniline-2	88-74-4	400 U	4600 U	410 U	790 U	5100 U	5200 U
Nitroaniline-3	99-09-2	400 U	4600 U	410 U	790 U	5100 U	5200 U
Nitroaniline-4	100-01-6	400 U	4600 U	410 U	790 U	5100 U	5200 U
Nitrobenzene	98-95-3	200 U	2400 U	210 U	410 U	2600 U	2700 U
Nitrophenol-2	88-75-5	200 U	2400 U	210 U	410 U	2600 U	2700 U
Nitrophenol-4	100-02-7	400 U	4600 U	410 U	790 U	5100 U	5200 U
Nitroso-di-n-propyl-amine-N	621-64-7	200 U	2400 U	210 U	410 U	2600 U	2700 U
Nitrosodiphenylamine-n	86-30-6	200 U	2400 U	210 U	410 U	2600 U	2700 U
PCP (Pentachlorophenol)	87-86-5	400 U	4600 UJ	410 U	790 U	5100 UJ	5200 U
Phenanthrene	85-01-8	1000	9800	1800	850	7100	8000
Phenol	108-95-2	200 U	2400 U	210 U	410 U	2600 U	2700 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	2700	25000	2100	4100	9500 U	19000
Phthalate, diethyl	84-66-2	51 J	2400 U	210 U	70 J	990 J	2700 U
Phthalate, dimethyl	131-11-3	200 U	2400 U	210 U	410 U	2600 U	2700 U

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Analytical Results - Semivolatile Organic Compounds
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-50	SB-50	SB-50	SB-51	SB-51	SB-51
Sample ID		SB-50-0.5-1.5-3	SB-50-20.0-21.0-3	SB-50-29.0-30.0-3	SB-51-0.5-1.5-3	SB-51-16.0-17.0-3	SB-51-25.0-26.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009
Sample Interval		0.5 - 1.5 FT	20 - 21 FT	29 - 30 FT	0.5 - 1.5 FT	16 - 17 FT	25 - 26 FT
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	52 J	960 J	53 J	170 J	2600 U	390 J
Phthalate, di-n-octyl	117-84-0	200 U	760 J	210 U	410 U	350 J	560 J
Pyrene	129-00-0	1600	6900	1600	2100	4500	7400
Tetrachlorobenzene-1,2,4,5	95-94-3	21 J	2400 U	210 U	180 J	2600 U	2700 U
Tetrachlorophenol-2,3,4,6	58-90-2	200 U	2400 U	210 U	410 U	2600 U	2700 U
Trichlorophenol-2,4,5	95-95-4	200 U	2400 U	210 U	930	2600 U	2700 U
Trichlorophenol-2,4,6	88-06-2	200 U	2400 U	210 U	410 U	2600 U	2700 U

Table Analytical Results Pesticides PCBs Soil

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S
Sample ID		MW-18S-0.5-1.5-3	MW-18S-10.6-11.6-3	MW-18S-5.5-6.5-3	MW-19S-0.5-1.5-3	MW-19S-26.0-27.0-3	MW-19S-29.0-30.0-3
Sample Date		05/12/2009	05/12/2009	05/12/2009	05/13/2009	05/13/2009	05/13/2009
Sample Interval		0.5 - 1.5 FT	10.6 - 11.6 FT	5.5 - 6.5 FT	0.5 - 1.5 FT	26 - 27 FT	29 - 30 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	1.9 U	3.2 U	5.4 R	2.4 U	2 U	2.4 J
BHC, alpha	319-84-6	1.9 U	140	6.8 R	2.4 U	2 U	3 U
BHC, beta	319-85-7	1.9 U	94	45 R	2.4 U	2 U	3.4 J
BHC, delta	319-86-8	1.9 U	4.7 NJ	15	2.4 U	3	1.9 J
BHC, gamma (Lindane)	58-89-9	1.9 U	5.3 J	9.8 R	2.4 U	2 U	3 U
Chlordane - alpha	5103-71-9	1.1 J	45	24 NJ	1.2 J	2 U	3.2 R
Chlordane - beta	5103-74-2	1.9 U	45 R	5.2 R	2.4 U	2 U	3.5 R
DDD-4,4	72-54-8	3.8	270	3.8 J	7.3 R	5.9 R	8.1 J
DDE-4,4	72-55-9	2.2 J	60	5.8 NJ	6.1	3.9 U	5.8 U
DDT-4,4	50-29-3	3.7 U	37 NJ	7.8 J	31	4.5 NJ	10 NJ
Dieldrin	60-57-1	3.7 U	30 NJ	4.4 U	8.4 R	4.9 NJ	5.8 U
Endosulfan I (alpha)	959-98-8	1.9 U	6.9 J	2.2 R	2.4 U	2 U	3 U
Endosulfan II (beta)	33213-65-9	3.7 U	6.2 U	5.7 NJ	4.7 U	3.9 U	9.1 J
Endosulfan Sulfate	1031-07-8	3.7 U	6.2 U	8.3 NJ	4.7 U	3.9 U	12 R
Endrin	72-20-8	3.7 U	14 R	5.1	4 J	3.9 U	5.8 UJ
Endrin Aldehyde	7421-93-4	3.7 U	6.2 U	12 J	6.4 R	4.8 R	19 NJ
Endrin ketone	53494-70-5	3.7 U	11 NJ	14	16 R	16 J	24
Heptachlor	76-44-8	1.9 U	4.1 R	15 R	2.4 U	1.7 J	3 U
Heptachlor Epoxide	1024-57-3	1.9 U	17 R	4 R	2.4 U	2 U	4 R
Methoxychlor	72-43-5	19 U	32 U	18 J	18 J	20 U	36 R
Toxaphene	8001-35-2	190 U	320 U	220 U	240 U	200 U	300 U
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	37 U	62 UJ	43 UJ	47 U	38 U	58 U
Pcb-araclor 1221	11104-28-2	37 U	62 UJ	43 UJ	47 U	38 U	58 U
Pcb-araclor 1232	11141-16-5	37 U	62 UJ	43 UJ	47 U	38 U	58 U
Pcb-araclor 1242	53469-21-9	37 U	62 UJ	43 UJ	47 U	150	58 U
Pcb-araclor 1248	12672-29-6	190	380 J	2900	47 U	38 U	58 U
Pcb-araclor 1254	11097-69-1	180	62 UJ	43 UJ	47 U	38 U	58 U
Pcb-araclor 1260	11096-82-5	68	62 UJ	43 UJ	800	38 U	58 U

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S
Sample ID		MW-18S-0.5-1.5-3	MW-18S-10.6-11.6-3	MW-18S-5.5-6.5-3	MW-19S-0.5-1.5-3	MW-19S-26.0-27.0-3	MW-19S-29.0-30.0-3
Sample Date		05/12/2009	05/12/2009	05/12/2009	05/13/2009	05/13/2009	05/13/2009
Sample Interval		0.5 - 1.5 FT	10.6 - 11.6 FT	5.5 - 6.5 FT	0.5 - 1.5 FT	26 - 27 FT	29 - 30 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	37 U	62 UJ	43 UJ	47 U	460	58 U
Pcb-araclor 1268	11100-14-4	37 U	62 UJ	43 UJ	47 U	38 U	58 U

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-20S	MW-20S	MW-20S	MW-20S	SB-39	SB-39
Sample ID		D-3-05-14-09-05	MW-20S-0.5-1.5-3	MW-20S-15.0-16.0-3	MW-20S-26.0-27.0-3	D-3-05-08-09-02	SB-39-0.5-1.5-3
Sample Date		05/14/2009	05/14/2009	05/14/2009	05/14/2009	05/08/2009	05/08/2009
Sample Interval		0.5 - 1.5 FT	0.5 - 1.5 FT	15 - 16 FT	26 - 27 FT	0.5 - 1.5 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	6.2 UJ	2 U	2.7 R	2.2 R	2.3 U	2.1 U
BHC, alpha	319-84-6	110 J	110 J	9.3 R	3.7 J	2.3 U	2.1 U
BHC, beta	319-85-7	810	280 J	13 J	1.1 J	2.3 U	2.1 U
BHC, delta	319-86-8	14 J	6.3	5.6 R	2.2 R	2.3 U	2.1 U
BHC, gamma (Lindane)	58-89-9	20 J	9.7	3 JN	2.2 R	2.3 U	2.1 U
Chlordane - alpha	5103-71-9	6.2 UJ	4.4 J	2.6	2.2 R	27	2.7
Chlordane - beta	5103-74-2	6.2 UJ	4.8 R	2.6 U	2.4 R	24 J	2.6 R
DDD-4,4	72-54-8	30 J	38	68	4.4 J	26 NJ	5.7 R
DDE-4,4	72-55-9	84 J	35	14 JN	4.3 R	6.4 R	6.4
DDT-4,4	50-29-3	12 UJ	17 JN	42 J	5.3 J	16 NJ	9 NJ
Dieldrin	60-57-1	12 UJ	6 JN	5.1	4.3 R	12	5.1 R
Endosulfan I (alpha)	959-98-8	6.2 UJ	2 JN	2.6 U	2.2 R	2.3 U	2.1 U
Endosulfan II (beta)	33213-65-9	12 UJ	4 U	5.1 U	4.3 R	4.5 U	4.1 U
Endosulfan Sulfate	1031-07-8	12 U	4 U	5.1 U	4.3 R	4.5 U	4.1 U
Endrin	72-20-8	12 UJ	6.3	5.1 U	4.3 R	2.6 J	4.1 U
Endrin Aldehyde	7421-93-4	12 UJ	4 U	5.7 JN	4.3 R	4.5 U	4.1 U
Endrin ketone	53494-70-5	9.4 J	4.4 R	8.9	4.3 R	11 NJ	7.1 NJ
Heptachlor	76-44-8	6.2 UJ	2.2 R	6.9 R	1.3 J	2.3 U	1.3 J
Heptachlor Epoxide	1024-57-3	6.2 UJ	9.1 JN	3.2 R	2.2 UJ	2.3 U	1.6 J
Methoxychlor	72-43-5	62 U	20 U	26 U	22 R	71 NJ	21 U
Toxaphene	8001-35-2	620 U	200 U	260 U	220 R	230 U	210 U
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	39 U	39 U	52 U	42 UJ	46 U	41 U
Pcb-araclor 1221	11104-28-2	39 U	39 U	52 U	42 UJ	46 U	41 U
Pcb-araclor 1232	11141-16-5	39 U	39 U	52 U	42 UJ	46 U	41 U
Pcb-araclor 1242	53469-21-9	39 U	39 U	52 U	360 J	79	140 J
Pcb-araclor 1248	12672-29-6	39 U	110 J	52 U	42 UJ	46 U	41 U
Pcb-araclor 1254	11097-69-1	250 R	240 J	52 U	250 R	500	470
Pcb-araclor 1260	11096-82-5	160	780	52 U	68 J	730	360

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-20S	MW-20S	MW-20S	MW-20S	SB-39	SB-39
Sample ID		D-3-05-14-09-05	MW-20S-0.5-1.5-3	MW-20S-15.0-16.0-3	MW-20S-26.0-27.0-3	D-3-05-08-09-02	SB-39-0.5-1.5-3
Sample Date		05/14/2009	05/14/2009	05/14/2009	05/14/2009	05/08/2009	05/08/2009
Sample Interval		0.5 - 1.5 FT	0.5 - 1.5 FT	15 - 16 FT	26 - 27 FT	0.5 - 1.5 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	39 U	39 U	52 U	42 UJ	46 U	41 U
Pcb-araclor 1268	11100-14-4	39 U	39 U	52 U	42 UJ	46 U	41 U

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-39	SB-39	SB-40	SB-40	SB-40	SB-40
Sample ID		SB-39-10.5-11.5-3	SB-39-5.0-6.0-3	D-3-05-08-09-03	SB-40-0.5-1.5-3	SB-40-14.1-15.1-3	SB-40-6.5-7.5-3
Sample Date		05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009
Sample Interval		10.5 - 11.5 FT	5 - 6 FT	0.5 - 1.5 FT	0.5 - 1.5 FT	14.1 - 15.1 FT	6.5 - 7.5 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	2.4 U	4.3 R	3.3 NJ	2.3 U	2 U	2.2 U
BHC, alpha	319-84-6	2.4 U	3 NJ	2.5 J	2.3 U	2 U	2.2 U
BHC, beta	319-85-7	2.4 U	10 NJ	6.7 R	2.8 R	2 U	7.8 R
BHC, delta	319-86-8	2.4 U	2.4 U	2.2 U	2.3 U	2 U	2.2 U
BHC, gamma (Lindane)	58-89-9	2.4 U	2.4 U	2.2 U	2.3 U	2 U	2.2 U
Chlordane - alpha	5103-71-9	13	8 J	2.7 R	3	2 U	2.7 R
Chlordane - beta	5103-74-2	14 J	8.9 R	4.8 R	3 R	2 U	6.7 R
DDD-4,4	72-54-8	14 J	23	17	9.6 JN	3.9 U	9.9 NJ
DDE-4,4	72-55-9	4.6 U	16 J	13	4.4 U	3.9 U	6.6 J
DDT-4,4	50-29-3	12 NJ	22	12	10 R	3.9 U	18
Dieldrin	60-57-1	4.6 U	10	8.6 NJ	4.4 U	3.9 U	4.3 U
Endosulfan I (alpha)	959-98-8	2.4 U	4.2	2.2 U	2.3 U	2 U	2.2 U
Endosulfan II (beta)	33213-65-9	4.6 U	4.6 U	4.7 R	4.4 U	3.9 U	4.3 U
Endosulfan Sulfate	1031-07-8	4.6 U	4.6 U	4.5	4.4 U	3.9 U	4.3 U
Endrin	72-20-8	4.6 U	4.6 U	3.1 J	4.4 U	3.9 U	4.3 U
Endrin Aldehyde	7421-93-4	4.6 U	5.2 NJ	8.1 R	4.4 U	3.9 U	4.3 U
Endrin ketone	53494-70-5	11 J	9.6 J	12 J	11 NJ	3.9 U	10
Heptachlor	76-44-8	2.4 U	9.8 NJ	6.4 NJ	1.6 J	2 U	5.4
Heptachlor Epoxide	1024-57-3	2.4 U	6.2 R	3.6 R	2.3 U	2 U	3.7 R
Methoxychlor	72-43-5	24 U	24 U	22 U	23 U	20 U	22 U
Toxaphene	8001-35-2	240 U	240 U	220 U	230 U	200 U	220 U
Aroclors (ug/kg)							
Pcb-aroclor 1016	12674-11-2	46 UJ	46 U	130 U	44 U	39 U	43 U
Pcb-aroclor 1221	11104-28-2	46 UJ	46 U	130 U	44 U	39 U	43 U
Pcb-aroclor 1232	11141-16-5	46 UJ	46 U	130 U	44 U	39 U	43 U
Pcb-aroclor 1242	53469-21-9	550 J	1600	4700 J	130 J	40 J	2100
Pcb-aroclor 1248	12672-29-6	46 UJ	46 U	130 U	44 U	39 U	43 U
Pcb-aroclor 1254	11097-69-1	630 J	1300 J	2700	550	41	1900
Pcb-aroclor 1260	11096-82-5	210 J	370	360	430	21 J	550

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-39	SB-39	SB-40	SB-40	SB-40	SB-40
Sample ID		SB-39-10.5-11.5-3	SB-39-5.0-6.0-3	D-3-05-08-09-03	SB-40-0.5-1.5-3	SB-40-14.1-15.1-3	SB-40-6.5-7.5-3
Sample Date		05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009
Sample Interval		10.5 - 11.5 FT	5 - 6 FT	0.5 - 1.5 FT	0.5 - 1.5 FT	14.1 - 15.1 FT	6.5 - 7.5 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	46 UJ	46 U	130 U	44 U	39 U	43 U
Pcb-araclor 1268	11100-14-4	46 UJ	46 U	130 U	44 U	39 U	43 U

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-41	SB-41	SB-41	SB-42	SB-42	SB-42
Sample ID		SB-41-0.5-1.5-3	SB-41-12.5-13.5-3	SB-41-30.5-31.5-3	SB-42-0.5-1.5-3	SB-42-2.0-3.0-3	SB-42-32-33-3
Sample Date		05/07/2009	05/07/2009	05/08/2009	05/07/2009	05/07/2009	05/07/2009
Sample Interval		0.5 - 1.5 FT	12.5 - 13.5 FT	30.5 - 31.5 FT	0.5 - 1.5 FT	2 - 3 FT	32 - 33 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	180 R	NA	2.8 UJ	2.2 U	8.9 R	2 U
BHC, alpha	319-84-6	4.7 U	NA	2.8 UJ	2.2 U	3.8 R	2 U
BHC, beta	319-85-7	18 R	NA	22 NJ	2.2 U	54	2 U
BHC, delta	319-86-8	150 J	NA	13 J	2.2 U	24 J	2 U
BHC, gamma (Lindane)	58-89-9	4.7 U	NA	9 NJ	2.2 U	15 J	2 U
Chlordane - alpha	5103-71-9	4.7 U	42	8 R	1.6 J	20 R	2 U
Chlordane - beta	5103-74-2	4.7 U	56 R	5.6 R	2.2 U	29 R	2 U
DDD-4,4	72-54-8	12 JN	69 NJ	6.1 J	4.6 J	18 JN	3.9 U
DDE-4,4	72-55-9	230	NA	5.4 UJ	10	11 J	3.9 U
DDT-4,4	50-29-3	100 J	54 J	5.4 UJ	10	25 JN	3.9 U
Dieldrin	60-57-1	16 R	NA	5.4 U	4.3 U	20 J	3.9 U
Endosulfan I (alpha)	959-98-8	28 R	NA	2.8 UJ	2.2 U	6.4 R	2 U
Endosulfan II (beta)	33213-65-9	13 R	NA	5.1 J	4.3 U	19 JN	3.9 U
Endosulfan Sulfate	1031-07-8	6 J	120 NJ	5.4 UJ	5.1 R	55 J	3.9 U
Endrin	72-20-8	25	NA	4.4 J	4.3 U	8.3 R	3.9 U
Endrin Aldehyde	7421-93-4	7.3 J	120 NJ	11 J	3.6 J	23 J	3.9 U
Endrin ketone	53494-70-5	10 R	44 R	5.4 UJ	11 J	19 JN	3.9 U
Heptachlor	76-44-8	48 J	NA	15 R	1.6 J	20 R	2 U
Heptachlor Epoxide	1024-57-3	300 R	NA	4.7 R	2.7 R	6.9 R	2 U
Methoxychlor	72-43-5	47 U	120 R	21 J	22 U	63 R	20 U
Toxaphene	8001-35-2	470 U	210 U	280 U	220 U	210 U	200 U
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	9000 U	40 UJ	55 UJ	210 U	200 U	38 U
Pcb-araclor 1221	11104-28-2	9000 U	40 UJ	55 UJ	210 U	200 U	38 U
Pcb-araclor 1232	11141-16-5	9000 U	40 UJ	55 UJ	210 U	200 U	38 U
Pcb-araclor 1242	53469-21-9	9000 U	880	55 UJ	210 U	1200 J	38 U
Pcb-araclor 1248	12672-29-6	48000	40 UJ	55 UJ	800 J	200 U	38 U
Pcb-araclor 1254	11097-69-1	9000 U	650 J	55 UJ	1600	200 U	38 U
Pcb-araclor 1260	11096-82-5	9000 U	220 J	55 UJ	140 J	200 U	38 U

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-41	SB-41	SB-41	SB-42	SB-42	SB-42
Sample ID		SB-41-0.5-1.5-3	SB-41-12.5-13.5-3	SB-41-30.5-31.5-3	SB-42-0.5-1.5-3	SB-42-2.0-3.0-3	SB-42-32-33-3
Sample Date		05/07/2009	05/07/2009	05/08/2009	05/07/2009	05/07/2009	05/07/2009
Sample Interval		0.5 - 1.5 FT	12.5 - 13.5 FT	30.5 - 31.5 FT	0.5 - 1.5 FT	2 - 3 FT	32 - 33 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	9000 U	40 UJ	55 UJ	210 U	200 U	38 U
Pcb-araclor 1268	11100-14-4	9000 U	40 UJ	55 UJ	210 U	200 U	38 U

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-43	SB-43	SB-43	SB-44	SB-44	SB-44
Sample ID		SB-43-0.5-1.5-3	SB-43-11.5-12.5-3	SB-43-15.0-16.0-3	D-3-05-06-09-01	SB-44-0.5-1.0-3	SB-44-13.1-13.6-3
Sample Date		05/07/2009	05/07/2009	05/07/2009	05/06/2009	05/06/2009	05/06/2009
Sample Interval		0.5 - 1.5 FT	11.5 - 12.5 FT	15 - 16 FT	0.5 - 1.5 FT	0.5 - 1 FT	13.1 - 13.6 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	2 U	18 R	2.3 U	4.9 R	4 U	2 U
BHC, alpha	319-84-6	2 U	2.2 U	2.3 U	28	6.5	2 U
BHC, beta	319-85-7	2 U	35 R	3.4	21	51 R	2 U
BHC, delta	319-86-8	2 U	11 J	2.3 U	2.2 U	94 JN	2 U
BHC, gamma (Lindane)	58-89-9	2 U	5.7 R	2.3 U	2.2 U	7.4 R	2 U
Chlordane - alpha	5103-71-9	6.6	83 J	2.3 U	4.3 R	11 R	2 U
Chlordane - beta	5103-74-2	6.4 R	9.3 R	2.9 R	4.8 R	100 R	2 U
DDD-4,4	72-54-8	20	31	24	53 NJ	29 R	3.9 U
DDE-4,4	72-55-9	5.7 R	4.4 R	11 J	14 R	110	3.9 U
DDT-4,4	50-29-3	9 JN	30 J	16	120	110	3.9 U
Dieldrin	60-57-1	6.2 J	4.3 U	5.3	13 R	40	2.2 J
Endosulfan I (alpha)	959-98-8	2.4	11 JN	3 J	6.5 R	22 R	2 U
Endosulfan II (beta)	33213-65-9	4 U	4.3 U	4.6 U	10 R	9.9 R	3.9 U
Endosulfan Sulfate	1031-07-8	6.4	7 R	5.2 R	4.2 U	8 U	3.9 U
Endrin	72-20-8	4 U	11	4.6 U	5.8 R	13	3.9 U
Endrin Aldehyde	7421-93-4	4 U	6 R	7.7 JN	8.5 JN	9.7 R	3.9 U
Endrin ketone	53494-70-5	9 R	27	16 J	8.8 R	21 JN	3.9 U
Heptachlor	76-44-8	2 U	19 R	3.6 R	2.2 U	16 R	1.6 J
Heptachlor Epoxide	1024-57-3	3.5 R	2.2 U	2.4 R	17 R	43 R	2 U
Methoxychlor	72-43-5	20 U	53 R	23 U	22 U	40 U	20 U
Toxaphene	8001-35-2	200 U	220 U	230 U	220 U	400 U	200 U
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	190 U	440 U	130 U	430 U	770 U	39 U
Pcb-araclor 1221	11104-28-2	190 U	440 U	130 U	430 U	770 U	39 U
Pcb-araclor 1232	11141-16-5	190 U	440 U	130 U	430 U	770 U	39 U
Pcb-araclor 1242	53469-21-9	190 U	440 U	130 U	430 U	770 U	85
Pcb-araclor 1248	12672-29-6	470 J	2600	590	430 U	6600	39 U
Pcb-araclor 1254	11097-69-1	1600 J	1400	410	2700	5800	39
Pcb-araclor 1260	11096-82-5	140 J	820	140	410 J	550 J	55

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-43	SB-43	SB-43	SB-44	SB-44	SB-44
Sample ID		SB-43-0.5-1.5-3	SB-43-11.5-12.5-3	SB-43-15.0-16.0-3	D-3-05-06-09-01	SB-44-0.5-1.0-3	SB-44-13.1-13.6-3
Sample Date		05/07/2009	05/07/2009	05/07/2009	05/06/2009	05/06/2009	05/06/2009
Sample Interval		0.5 - 1.5 FT	11.5 - 12.5 FT	15 - 16 FT	0.5 - 1.5 FT	0.5 - 1 FT	13.1 - 13.6 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	190 U	440 U	130 U	430 U	770 U	39 U
Pcb-araclor 1268	11100-14-4	190 U	440 U	130 U	430 U	770 U	39 U

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-44	SB-45	SB-45	SB-45	SB-46	SB-46
Sample ID		SB-44-6.2-6.7-3	SB-45-15.7-16.2-3	SB-45-2.0-2.5-3	SB-45-6.5-7.0-3	SB-46-0.5-1.5-3	SB-46-21.0-22.0-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009	05/11/2009
Sample Interval		6.2 - 6.7 FT	15.7 - 16.2 FT	2 - 2.5 FT	6.5 - 7 FT	0.5 - 1.5 FT	21 - 22 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	2 U	14 R	2.4 U	3.7 R	2.1 U	6.5 R
BHC, alpha	319-84-6	2 U	5.2 R	14 J	6.6 R	61	2.8 NJ
BHC, beta	319-85-7	1.1 J	16 J	19	38 JN	160	23 NJ
BHC, delta	319-86-8	2 U	17 R	11	15 J	4.7 R	4.1 R
BHC, gamma (Lindane)	58-89-9	2 U	15 J	5.2	8.8 R	4.8	5.1 R
Chlordane - alpha	5103-71-9	2 U	7.4 R	6.6 R	5.6 R	10 NJ	7.8 NJ
Chlordane - beta	5103-74-2	2 U	9.6 R	11 R	9.4 R	11 R	9.5 R
DDD-4,4	72-54-8	3.9 U	66 J	44	29	62	59
DDE-4,4	72-55-9	3.9 U	17 JN	22	18 J	17 J	25
DDT-4,4	50-29-3	3.9 U	36 J	15 J	40	28 NJ	34
Dieldrin	60-57-1	3.9 U	21 R	9.3 JN	6.6 JN	15	11 J
Endosulfan I (alpha)	959-98-8	2 U	6.9 R	10	4.3 R	5.8	6.4
Endosulfan II (beta)	33213-65-9	3.9 U	14 R	4.6 U	6.5 R	4.2 U	5.2 U
Endosulfan Sulfate	1031-07-8	3.9 U	6.8 R	4.6 U	13 J	5.1	5.2 U
Endrin	72-20-8	3.9 U	8.5 J	9.4 J	11 JN	5.6 NJ	5.2 U
Endrin Aldehyde	7421-93-4	3.9 U	21 J	4.6 U	32	4.6 R	15
Endrin ketone	53494-70-5	3.9 U	22 JN	4.6 U	11 R	13 NJ	13 J
Heptachlor	76-44-8	2 U	33 JN	29 J	22 R	11 J	18 J
Heptachlor Epoxide	1024-57-3	2 U	7.1 R	8.1 R	4.9 R	8.1 R	2.7 U
Methoxychlor	72-43-5	20 U	27 R	24 U	24 R	21 U	27 U
Toxaphene	8001-35-2	200 U	220 UJ	240 U	240 U	210 U	270 U
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	40 U	130 U	47 UJ	47 UJ	41 U	51 U
Pcb-araclor 1221	11104-28-2	40 U	130 U	47 UJ	47 UJ	41 U	51 U
Pcb-araclor 1232	11141-16-5	40 U	130 U	47 UJ	47 UJ	41 U	51 U
Pcb-araclor 1242	53469-21-9	48	590 J	47 UJ	47 UJ	480	1500
Pcb-araclor 1248	12672-29-6	40 U	130 U	47 UJ	47 UJ	41 U	51 U
Pcb-araclor 1254	11097-69-1	37 J	130 U	47 UJ	47 UJ	1200	1300
Pcb-araclor 1260	11096-82-5	27 J	360 J	92 J	63 J	320	270

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-44	SB-45	SB-45	SB-45	SB-46	SB-46
Sample ID		SB-44-6.2-6.7-3	SB-45-15.7-16.2-3	SB-45-2.0-2.5-3	SB-45-6.5-7.0-3	SB-46-0.5-1.5-3	SB-46-21.0-22.0-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009	05/11/2009
Sample Interval		6.2 - 6.7 FT	15.7 - 16.2 FT	2 - 2.5 FT	6.5 - 7 FT	0.5 - 1.5 FT	21 - 22 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	40 U	130 U	47 UJ	47 UJ	41 U	51 U
Pcb-araclor 1268	11100-14-4	40 U	130 U	47 UJ	47 UJ	41 U	51 U

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-46	SB-47	SB-47	SB-47	SB-48	SB-48
Sample ID		SB-46-49.0-50.0-3	SB-47-0.5-1.5-3	SB-47-15.5-16.5-3	SB-47-27.0-28.0-3	SB-48-0.5-1.0-3	SB-48-11.0-11.5-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/06/2009	05/06/2009
Sample Interval		49 - 50 FT	0.5 - 1.5 FT	15.5 - 16.5 FT	27 - 28 FT	0.5 - 1 FT	11 - 11.5 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	2 U	2.1 U	11 J	3 R	2.2 U	18 R
BHC, alpha	319-84-6	2 U	3	2.4 U	2.2 U	27	2.4 U
BHC, beta	319-85-7	2 U	4.9 J	27 R	17 R	21	2.6 R
BHC, delta	319-86-8	2 U	2.1 U	8.7 R	2.2 U	2.2 U	2.4 U
BHC, gamma (Lindane)	58-89-9	2 U	2.1 U	6 R	2.2 U	2.2 U	2.4 U
Chlordane - alpha	5103-71-9	2 U	4.3	11 R	5.8 NJ	4.1 R	6.2
Chlordane - beta	5103-74-2	2 U	5.2	13 R	16 R	4.9 R	4.7 R
DDD-4,4	72-54-8	3.9 U	18	23 R	26	52 R	33 JN
DDE-4,4	72-55-9	3.9 U	3.2 J	20 NJ	12 R	16 R	12 J
DDT-4,4	50-29-3	3.9 U	5.8 NJ	63	45	170 J	21 JN
Dieldrin	60-57-1	3.9 U	12	13 NJ	7.7 R	13 R	17 JN
Endosulfan I (alpha)	959-98-8	2 U	2.1 U	11	4.8 NJ	7.8 R	3.4 R
Endosulfan II (beta)	33213-65-9	3.9 U	4.1 U	9.2 R	4.4 U	15 R	4.8 U
Endosulfan Sulfate	1031-07-8	3.9 U	4.1 U	10 NJ	4.4 U	4.2 U	4.8 U
Endrin	72-20-8	3.9 U	4.1 U	6.8	4.4 U	9.4 R	12
Endrin Aldehyde	7421-93-4	3.9 U	4.1 U	22 NJ	4.6 NJ	14 J	32 JN
Endrin ketone	53494-70-5	3.9 U	4.3 J	17	5.9 R	13 R	35 J
Heptachlor	76-44-8	2 U	2.1 U	14 R	9.5 J	2.2 U	11
Heptachlor Epoxide	1024-57-3	2 U	2.1 U	2.4 U	2.2 U	22 R	6.8 R
Methoxychlor	72-43-5	20 U	21 U	43 J	22 U	22 U	25 U
Toxaphene	8001-35-2	200 U	210 U	240 U	230 U	220 U	250 U
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	39 U	41 U	46 UJ	44 UJ	420 U	150 U
Pcb-araclor 1221	11104-28-2	39 U	41 U	46 UJ	44 UJ	420 U	150 U
Pcb-araclor 1232	11141-16-5	39 U	41 U	46 UJ	44 UJ	420 U	150 U
Pcb-araclor 1242	53469-21-9	39 U	41 U	580 J	920	420 U	150 U
Pcb-araclor 1248	12672-29-6	39 U	41 U	46 UJ	44 UJ	420 U	1600
Pcb-araclor 1254	11097-69-1	39 U	150	1300	1000	4500	150 U
Pcb-araclor 1260	11096-82-5	39 U	140	150 J	110 J	630 J	1600

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-46	SB-47	SB-47	SB-47	SB-48	SB-48
Sample ID		SB-46-49.0-50.0-3	SB-47-0.5-1.5-3	SB-47-15.5-16.5-3	SB-47-27.0-28.0-3	SB-48-0.5-1.0-3	SB-48-11.0-11.5-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/06/2009	05/06/2009
Sample Interval		49 - 50 FT	0.5 - 1.5 FT	15.5 - 16.5 FT	27 - 28 FT	0.5 - 1 FT	11 - 11.5 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	39 U	41 U	46 UJ	44 UJ	420 U	150 U
Pcb-araclor 1268	11100-14-4	39 U	41 U	46 UJ	44 UJ	420 U	150 U

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-48	SB-49	SB-49	SB-49	SB-50	SB-50
Sample ID		SB-48-20-20.5	SB-49-0.5-1.0-3	SB-49-15.1-15.6-3	SB-49-20.0-20.5-3	D-3-05-11-09-04	SB-50-0.5-1.5-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009	05/11/2009
Sample Interval		20 - 20.5 FT	0.5 - 1 FT	15.1 - 15.6 FT	20 - 20.5 FT	0.5 - 1.5 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	4.6 R	2.2 U	2 U	9.6 J	12 R	4.1 U
BHC, alpha	319-84-6	3.4 R	34 R	2 U	2.2 JN	48	370
BHC, beta	319-85-7	27	74	2 U	8.4 JN	21 R	150 J
BHC, delta	319-86-8	12 JN	2.2 U	2 U	2.8 R	4.2 R	8
BHC, gamma (Lindane)	58-89-9	7.6 JN	2.2 U	2 U	2.4 R	5 R	3.4 J
Chlordane - alpha	5103-71-9	2.2 R	16 JN	2 U	4.1 JN	68 R	31
Chlordane - beta	5103-74-2	2.6 R	12 R	2 U	5.5 R	28 R	29 R
DDD-4,4	72-54-8	16	77	3.8 U	37 J	18 R	180
DDE-4,4	72-55-9	9.6 JN	30 JN	3.8 U	8.1 J	12 NJ	32
DDT-4,4	50-29-3	11 J	78 JN	3.8 U	30 J	46 J	28 NJ
Dieldrin	60-57-1	5.4 J	21 JN	3.8 U	21 J	8 U	19 JN
Endosulfan I (alpha)	959-98-8	2.3 R	7	2 U	3.6 J	7.9 R	4.1 U
Endosulfan II (beta)	33213-65-9	4 U	16 R	3.8 U	7.8 R	15 R	8 U
Endosulfan Sulfate	1031-07-8	4 U	28 J	3.8 U	30 J	61 NJ	8 U
Endrin	72-20-8	4 U	23 R	3.8 U	5.7 R	19 NJ	8 U
Endrin Aldehyde	7421-93-4	5.5 R	30	3.8 U	12 JN	35 R	9.3 J
Endrin ketone	53494-70-5	8.3 J	70 J	3.8 U	15 R	96	26 J
Heptachlor	76-44-8	17 R	2.2 U	2 U	12 J	30	5.7 R
Heptachlor Epoxide	1024-57-3	2 U	16 R	2 U	2.3 R	12 R	8.2 R
Methoxychlor	72-43-5	20 U	45 R	20 U	24 R	50 R	41 U
Toxaphene	8001-35-2	200 U	220 U	200 U	190 U	400 U	410 U
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	40 UJ	210 U	38 U	76 U	39 U	40 U
Pcb-araclor 1221	11104-28-2	40 UJ	210 U	38 U	76 U	39 U	40 U
Pcb-araclor 1232	11141-16-5	40 UJ	210 U	38 U	76 U	39 U	40 U
Pcb-araclor 1242	53469-21-9	270 J	210 U	38 U	940 J	300	240
Pcb-araclor 1248	12672-29-6	40 UJ	210 U	19 J	76 U	39 U	40 U
Pcb-araclor 1254	11097-69-1	120 J	1600	38 U	76 U	1000	1100
Pcb-araclor 1260	11096-82-5	71 J	290	38 U	440 J	420	230

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-48	SB-49	SB-49	SB-49	SB-50	SB-50
Sample ID		SB-48-20-20.5	SB-49-0.5-1.0-3	SB-49-15.1-15.6-3	SB-49-20.0-20.5-3	D-3-05-11-09-04	SB-50-0.5-1.5-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009	05/11/2009
Sample Interval		20 - 20.5 FT	0.5 - 1 FT	15.1 - 15.6 FT	20 - 20.5 FT	0.5 - 1.5 FT	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	40 UJ	210 U	38 U	76 U	39 U	40 U
Pcb-araclor 1268	11100-14-4	40 UJ	210 U	38 U	76 U	39 U	40 U

Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-50	SB-50	SB-51	SB-51	SB-51
Sample ID		SB-50-20.0-21.0-3	SB-50-29.0-30.0-3	SB-51-0.5-1.5-3	SB-51-16.0-17.0-3	SB-51-25.0-26.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009
Sample Interval		20 - 21 FT	29 - 30 FT	0.5 - 1.5 FT	16 - 17 FT	25 - 26 FT
Chemical Name	**CAS Number**					
Pesticides (ug/kg)						
Aldrin	309-00-2	6.3 R	2.1 U	2.4 U	13 R	4.7 R
BHC, alpha	319-84-6	2.5 NJ	2.1 U	2.4 U	5 NJ	2.8 J
BHC, beta	319-85-7	13 R	2.1 U	39 R	21 R	8.5 R
BHC, delta	319-86-8	3.1 R	2.1 U	2.4 U	260	2.7 U
BHC, gamma (Lindane)	58-89-9	4.2 R	2.1 U	8.3 J	16 R	3.9 R
Chlordane - alpha	5103-71-9	18	2.1 U	29	12 NJ	6.8 J
Chlordane - beta	5103-74-2	36 R	8.8 R	34 R	15 R	8.1 R
DDD-4,4	72-54-8	83 J	5.7 R	240	56	210
DDE-4,4	72-55-9	61	6.9 R	50 NJ	40	23
DDT-4,4	50-29-3	74 J	20	220	46	20 J
Dieldrin	60-57-1	25 NJ	4 U	60 NJ	22	14 R
Endosulfan I (alpha)	959-98-8	12 NJ	2.1 U	16 R	11	5.2
Endosulfan II (beta)	33213-65-9	9.4 R	4 U	19 R	6.9 R	5.2 U
Endosulfan Sulfate	1031-07-8	4.7 U	4 U	11 NJ	9.9 NJ	6.4 NJ
Endrin	72-20-8	10 R	4 U	30 R	6.3 U	5.2 U
Endrin Aldehyde	7421-93-4	21 J	4 U	25 NJ	25	14
Endrin ketone	53494-70-5	15 NJ	4 U	44 J	26 J	15 J
Heptachlor	76-44-8	21	2.3 J	4.1 R	49 NJ	18
Heptachlor Epoxide	1024-57-3	3.2 R	4.7 R	45 R	8.5 R	12 R
Methoxychlor	72-43-5	24 U	21 U	27 R	31 U	27 U
Toxaphene	8001-35-2	240 U	210 U	240 U	310 U	270 U
Aroclors (ug/kg)						
Pcb-araclor 1016	12674-11-2	90 UJ	40 U	94 U	180 U	53 U
Pcb-araclor 1221	11104-28-2	90 UJ	40 U	94 U	180 U	53 U
Pcb-araclor 1232	11141-16-5	90 UJ	40 U	94 U	180 U	53 U
Pcb-araclor 1242	53469-21-9	3500	370	1300	8400	2300 J
Pcb-araclor 1248	12672-29-6	90 UJ	40 U	94 U	180 U	53 U
Pcb-araclor 1254	11097-69-1	6700	1200	8800	1800	810
Pcb-araclor 1260	11096-82-5	420 J	140	2000	680	300

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Analytical Results - Pesticides/PCBs
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-50	SB-50	SB-51	SB-51	SB-51
Sample ID		SB-50-20.0-21.0-3	SB-50-29.0-30.0-3	SB-51-0.5-1.5-3	SB-51-16.0-17.0-3	SB-51-25.0-26.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009
Sample Interval		20 - 21 FT	29 - 30 FT	0.5 - 1.5 FT	16 - 17 FT	25 - 26 FT
Chemical Name	**CAS Number**					
Aroclors (ug/kg)						
Pcb-araclor 1262	37324-23-5	90 UJ	40 U	94 U	180 U	53 U
Pcb-araclor 1268	11100-14-4	90 UJ	40 U	94 U	180 U	53 U

Table Analytical Results Metals Soil

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-18S	MW-18S	MW-18S	MW-19S	MW-19S	MW-19S
Sample ID		MW-18S-0.5-1.5-3	MW-18S-10.6-11.6-3	MW-18S-5.5-6.5-3	MW-19S-0.5-1.5-3	MW-19S-26.0-27.0-3	MW-19S-29.0-30.0-3
Sample Date		05/12/2009	05/12/2009	05/12/2009	05/13/2009	05/13/2009	05/13/2009
Sample Interval		0.5 - 1.5 ft	10.6 - 11.6 ft	5.5 - 6.5 ft	0.5 - 1.5 ft	26 - 27 ft	29 - 30 ft
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	4220000	10200000	11100000	6240000	1530000	16600000
Antimony	7440-36-0	1700 J	15400 J	3100 J	3100 J	6800 UJ	13500 J
Arsenic	7440-38-2	8000 J	44100 J	25400 J	11500	2200	67600
Barium	7440-39-3	69700	612000	325000	361000	22900 U	571000
Beryllium	7440-41-7	330 J	620 J	1700	330 J	90 J	870
Cadmium	7440-43-9	940	4900	1800	4000	570 U	2500
Calcium	7440-70-2	2710000	13600000	21500000	7450000	742000	5220000
Chromium	7440-47-3	73600	275000	148000	30200	16900	596000
Cobalt	7440-48-4	5700 U	18500	7300 U	6500 U	5700 U	9300
Copper	7440-50-8	47500	596000	1280000	224000	10800	651000
Iron	7439-89-6	10800000	72200000	20300000	31000000	3760000	29400000
Lead	7439-92-1	132000	1220000	537000	410000	65700	845000
Magnesium	7439-95-4	2480000	4610000	11100000	1580000	808000	5880000
Manganese	7439-96-5	222000	632000	748000	168000	37500	232000
Mercury	7439-97-6	700 J	6300 J	230 J	2500	50 J	15000
Nickel	7440-02-0	17800	116000	44300	49300 J	6100 J	66900 J
Potassium	7440-09-7	740000	1220000	2340000	419000 J	266000 J	2100000
Selenium	7782-49-2	4000 U	3500 J	1700 J	1200 J	4000 U	3600 J
Silver	7440-22-4	590 J	2900	810 J	620 J	1100 U	7600
Sodium	7440-23-5	107000 J	1550000	540000 J	195000 J	83300 J	882000
Thallium	7440-28-0	310 J	1400 J	510 J	3300 U	2900 U	4300 U
Vanadium	7440-62-2	15700	36600	22600	70600	8600	64000
Zinc	7440-66-6	101000 J	1420000 J	553000 J	730000 J	37400 J	637000 J

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		MW-20S	MW-20S	MW-20S	MW-20S	SB-39	SB-39
Sample ID		D-3-05-14-09-05	MW-20S-0.5-1.5-3	MW-20S-15.0-16.0-3	MW-20S-26.0-27.0-3	D-3-05-08-09-02	SB-39-0.5-1.5-3
Sample Date		05/14/2009	05/14/2009	05/14/2009	05/14/2009	05/08/2009	05/08/2009
Sample Interval		0.5 - 1.5 ft	0.5 - 1.5 ft	15 - 16 ft	26 - 27 ft	0.5 - 1.5 ft	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	7650000	6910000	7500000	4970000	6710000	6630000
Antimony	7440-36-0	106000 J	237000 J	5500 J	1600 J	2400 J	2100 J
Arsenic	7440-38-2	44100 J	63100 J	36800	5600	11700	11200
Barium	7440-39-3	1020000	1330000	331000	170000	307000 J	174000 J
Beryllium	7440-41-7	410 J	380 J	430 J	200 J	410 J	400 J
Cadmium	7440-43-9	13700	18200	4400	2000	4900 J	14900 J
Calcium	7440-70-2	22400000	24700000	3660000	6300000	5220000	4240000
Chromium	7440-47-3	59100 J	116000 J	233000	43500	53500 J	37300 J
Cobalt	7440-48-4	10800	11800	5900	7000	8000 J	6900 J
Copper	7440-50-8	1900000 J	3530000 J	331000	171000	174000	157000
Iron	7439-89-6	39700000	33000000	22600000	19600000	22200000	22600000
Lead	7439-92-1	2140000 J	7200000 J	580000	465000	477000	354000
Magnesium	7439-95-4	3070000 J	6120000 J	2950000	2620000	1980000	1760000
Manganese	7439-96-5	457000	436000	208000	255000	567000 J	384000 J
Mercury	7439-97-6	2600	3700	5900	1800	2100 J	1800 J
Nickel	7440-02-0	475000 J	502000 J	48400 J	22400 J	52600	47600
Potassium	7440-09-7	1030000	695000	840000	499000 J	509000 J	504000 J
Selenium	7782-49-2	3300 J	3800 J	1700 J	4400 U	1800 J	2000 J
Silver	7440-22-4	86900 J	124000 J	4500	1300	790 J	520 J
Sodium	7440-23-5	346000 J	391000 J	520000 J	479000 J	120000 J	114000 J
Thallium	7440-28-0	3000 U	3000 U	2800 U	3200 U	230 J	280 J
Vanadium	7440-62-2	28700	39100	31500	44600	28400	28700
Zinc	7440-66-6	3630000 J	3670000 J	911000 J	318000 J	1030000	867000

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-39	SB-39	SB-40	SB-40	SB-40	SB-40
Sample ID		SB-39-10.5-11.5-3	SB-39-5.0-6.0-3	D-3-05-08-09-03	SB-40-0.5-1.5-3	SB-40-14.1-15.1-3	SB-40-6.5-7.5-3
Sample Date		05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009	05/08/2009
Sample Interval		10.5 - 11.5 FT	5 - 6 FT	0.5 - 1.5 ft	0.5 - 1.5 FT	14.1 - 15.1 FT	6.5 - 7.5 FT
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	4310000	4440000	5250000	6450000	1710000	5340000
Antimony	7440-36-0	2400 J	3000 J	3700 J	2000 J	7100 UJ	820 J
Arsenic	7440-38-2	9000	9100	12200	11000	1300	4500
Barium	7440-39-3	173000	207000	302000 J	209000 J	17300 J	101000
Beryllium	7440-41-7	450 J	400 J	460 J	390 J	130 J	350 J
Cadmium	7440-43-9	4800 J	2400 J	4400 J	4300 J	590 U	630 UJ
Calcium	7440-70-2	10000000	14400000	11800000	8540000	1300000	9190000
Chromium	7440-47-3	67700	71500	132000 J	39800 J	10600	34300
Cobalt	7440-48-4	6500 UJ	6600 UJ	7400 J	6600 UJ	5800 UJ	6300 UJ
Copper	7440-50-8	339000	346000	398000	285000	9500	125000
Iron	7439-89-6	18000000	16600000	19000000	20500000	4930000	15600000
Lead	7439-92-1	636000	538000	1020000 J	404000 J	11100	171000
Magnesium	7439-95-4	2410000	3750000	2320000	2890000	883000	3560000
Manganese	7439-96-5	257000	255000	259000 J	491000 J	60800	305000
Mercury	7439-97-6	130 U	3000 J	950 J	2300 J	120 J	620 J
Nickel	7440-02-0	38600	45000	60300	45100	18100	24100
Potassium	7440-09-7	575000 J	544000 J	702000	460000 J	323000 J	835000
Selenium	7782-49-2	1000 J	1500 J	2100 J	1900 J	4100 U	800 J
Silver	7440-22-4	1500	1400	2100	620 J	1200 U	360 J
Sodium	7440-23-5	184000 J	211000 J	236000 J	134000 J	64700 J	210000 J
Thallium	7440-28-0	210 J	180 J	220 J	270 J	2900 U	310 J
Vanadium	7440-62-2	20000	22900	26600	27300	6000	19200
Zinc	7440-66-6	2140000	742000	1190000	902000	40200	274000

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-41	SB-41	SB-41	SB-42	SB-42	SB-42
Sample ID		SB-41-0.5-1.5-3	SB-41-12.5-13.5-3	SB-41-30.5-31.5-3	SB-42-0.5-1.5-3	SB-42-2.0-3.0-3	SB-42-32-33-3
Sample Date		05/07/2009	05/07/2009	05/08/2009	05/07/2009	05/07/2009	05/07/2009
Sample Interval		0.5 - 1.5 FT	12.5 - 13.5 FT	30.5 - 31.5 FT	0.5 - 1.5 FT	2 - 3 FT	32 - 33 FT
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	7240000	6580000	12900000	6300000	7600000	3520000
Antimony	7440-36-0	2100 J	4200 J	13800 J	2200 J	10000 J	6900 UJ
Arsenic	7440-38-2	19700	10600	65000	22300	17100	430 J
Barium	7440-39-3	142000	980000	518000	178000	748000	23400 U
Beryllium	7440-41-7	560 J	450 J	860	620 U	1800	580 U
Cadmium	7440-43-9	580 J	1100 J	4000 J	62 J	16600 J	580 U
Calcium	7440-70-2	2560000	17100000	9130000	1250000	12100000	585000 U
Chromium	7440-47-3	82100	281000	455000	88700	455000	5800
Cobalt	7440-48-4	6700 UJ	7000 J	10500 J	6200 UJ	12600 J	5800 UJ
Copper	7440-50-8	182000	292000	866000	189000	1180000	6700
Iron	7439-89-6	11600000	23600000	30400000	16100000	20500000	4710000
Lead	7439-92-1	217000	466000	873000	327000	3710000	2000
Magnesium	7439-95-4	1660000	2980000	5790000	1680000	3930000	1150000
Manganese	7439-96-5	109000	315000	398000	144000	422000	33800
Mercury	7439-97-6	1600 J	6200 J	12200 J	1800 J	10700 J	120 U
Nickel	7440-02-0	28400	90900	143000	20100	76800	5800
Potassium	7440-09-7	496000 J	726000	1590000	494000 J	848000	286000 J
Selenium	7782-49-2	1400 J	1900 J	4300 J	1700 J	5200 J	4100 U
Silver	7440-22-4	1100 J	1100 J	5600	1200 J	1900	1200 U
Sodium	7440-23-5	58500 J	795000	878000	85000 J	787000	131000 J
Thallium	7440-28-0	300 J	240 J	1900 J	430 J	430 J	2900 U
Vanadium	7440-62-2	25800	51600	50800	26700	54900	6500
Zinc	7440-66-6	240000	862000	1720000	238000	4530000	13800

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-43	SB-43	SB-43	SB-44	SB-44	SB-44
Sample ID		SB-43-0.5-1.5-3	SB-43-11.5-12.5-3	SB-43-15.0-16.0-3	D-3-05-06-09-01	SB-44-0.5-1.0-3	SB-44-13.1-13.6-3
Sample Date		05/07/2009	05/07/2009	05/07/2009	05/06/2009	05/06/2009	05/06/2009
Sample Interval		0.5 - 1.5 FT	11.5 - 12.5 FT	15 - 16 FT	0.5 - 1.5 ft	0.5 - 1 FT	13.1 - 13.6 FT
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	6670000	5660000	5680000	4290000	5810000	1340000
Antimony	7440-36-0	890 J	3200 J	3500 J	11600 J	2900 J	310 J
Arsenic	7440-38-2	6200	11400	20200	31300 J	10100 J	1100 J
Barium	7440-39-3	155000	421000	250000	268000	212000	23900 U
Beryllium	7440-41-7	380 J	340 J	700 U	390 J	1000	97 J
Cadmium	7440-43-9	700 J	950 J	3100 J	1800 J	3800	120 J
Calcium	7440-70-2	7880000	5150000	3400000	4040000	5630000	2240000
Chromium	7440-47-3	34300	74000	111000	23500 R	224000 R	5700
Cobalt	7440-48-4	5800 UJ	6200 UJ	7100 J	6500 U	6500	6000 U
Copper	7440-50-8	130000	249000	299000	189000 R	812000 R	7200
Iron	7439-89-6	12400000	16400000	15900000	16000000	12500000	3180000
Lead	7439-92-1	428000	674000	360000	434000 J	1310000 J	29700
Magnesium	7439-95-4	2560000	2650000	1960000	1540000	2410000	701000
Manganese	7439-96-5	282000	212000	163000	361000	229000	54400
Mercury	7439-97-6	2000 J	4000 J	3200 J	520 R	8100	120 UJ
Nickel	7440-02-0	17800	32300	56200	76000	49700	4600 J
Potassium	7440-09-7	411000 J	722000	579000 J	462000 J	654000	249000 J
Selenium	7782-49-2	1300 J	1500 J	1600 J	1500 J	1400 J	4200 U
Silver	7440-22-4	360 J	2900	1700	2900	1500	1200 U
Sodium	7440-23-5	98900 J	429000 J	567000 J	174000 J	264000 J	66200 J
Thallium	7440-28-0	270 J	200 J	570 J	210 J	290 J	3000 U
Vanadium	7440-62-2	20400	26300	22500	22100	20800	4200 J
Zinc	7440-66-6	495000	363000	602000	224000 R	2840000 R	33700 J

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-44	SB-45	SB-45	SB-45	SB-46	SB-46
Sample ID		SB-44-6.2-6.7-3	SB-45-15.7-16.2-3	SB-45-2.0-2.5-3	SB-45-6.5-7.0-3	SB-46-0.5-1.5-3	SB-46-21.0-22.0-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009	05/11/2009
Sample Interval		6.2 - 6.7 FT	15.7 - 16.2 FT	2 - 2.5 FT	6.5 - 7 FT	0.5 - 1.5 FT	21 - 22 FT
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	1260000	5010000	5800000	8300000	6300000	4830000
Antimony	7440-36-0	280 J	2200 J	3400 J	6800 J	4800 J	6100 J
Arsenic	7440-38-2	1500 J	9500 J	13600 J	49900 J	14000	14700
Barium	7440-39-3	23800 U	333000	193000	737000	449000	277000
Beryllium	7440-41-7	89 J	350 J	480 J	460 J	370 J	250 J
Cadmium	7440-43-9	120 J	7300	1100	8600	3300	3400
Calcium	7440-70-2	750000	4160000	7500000	9300000	6070000	11900000
Chromium	7440-47-3	4800	109000	16100	225000	76400	93500
Cobalt	7440-48-4	6000 U	6600 U	7100 U	8200	8400	7700 U
Copper	7440-50-8	6100	311000	222000	548000	289000	42500000
Iron	7439-89-6	2890000	10600000	14300000	21600000	22400000	25800000
Lead	7439-92-1	10200	873000	170000	2020000	613000	699000
Magnesium	7439-95-4	655000	2190000	2440000	3760000	2490000	2430000
Manganese	7439-96-5	36800	118000	259000	236000	242000	698000
Mercury	7439-97-6	120 UJ	970 J	320 J	6900 J	3000	2900
Nickel	7440-02-0	4300 J	35300	53600	107000	67300 J	46900 J
Potassium	7440-09-7	245000 J	556000 J	840000	1110000	633000	506000 J
Selenium	7782-49-2	4200 U	1100 J	1000 J	3000 J	1600 J	1400 J
Silver	7440-22-4	1200 U	2600	2400	5300	2400	9300
Sodium	7440-23-5	38700 J	413000 J	130000 J	436000 J	174000 J	647000 J
Thallium	7440-28-0	3000 U	310 J	3600 U	940 J	3100 U	3800 U
Vanadium	7440-62-2	4200 J	18800	21600	41600	27200	24800
Zinc	7440-66-6	21100 J	547000 J	247000 J	1480000 J	612000 J	17700000 J

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-46	SB-47	SB-47	SB-47	SB-48	SB-48
Sample ID		SB-46-49.0-50.0-3	SB-47-0.5-1.5-3	SB-47-15.5-16.5-3	SB-47-27.0-28.0-3	SB-48-0.5-1.0-3	SB-48-11.0-11.5-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/06/2009	05/06/2009
Sample Interval		49 - 50 FT	0.5 - 1.5 FT	15.5 - 16.5 FT	27 - 28 FT	0.5 - 1 FT	11 - 11.5 FT
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	3500000	9780000	4470000	5840000	5610000	3950000
Antimony	7440-36-0	250 J	1200 J	810 J	1300 J	12700 J	1500 J
Arsenic	7440-38-2	1200	22500	11700	17500	17700 J	8700 J
Barium	7440-39-3	23700 U	224000	193000	487000	239000	212000
Beryllium	7440-41-7	200 J	660	270 J	360 J	440 J	580 J
Cadmium	7440-43-9	590 U	2500	1600	5000	3100	3000
Calcium	7440-70-2	3590000	4870000	9250000	11200000	5910000	9440000
Chromium	7440-47-3	7000	260000	46000	68600	26300	38000
Cobalt	7440-48-4	5900 U	9300	6300 U	7000 U	6400 U	7500
Copper	7440-50-8	8800	186000	90800	118000	217000	114000
Iron	7439-89-6	8700000	23200000	14800000	19500000	13400000	11800000
Lead	7439-92-1	3800	236000	402000	431000	680000	767000
Magnesium	7439-95-4	3360000	4660000	2390000	2490000	2210000	2450000
Manganese	7439-96-5	147000	404000	198000	235000	188000	220000
Mercury	7439-97-6	120 U	3800	1000	7700	540 J	2700 J
Nickel	7440-02-0	8300 J	32700 J	47300 J	285000 J	49700	51600
Potassium	7440-09-7	462000 J	1540000	538000 J	671000 J	619000 J	478000 J
Selenium	7782-49-2	4200 U	960 J	4400 U	4900 U	1100 J	690 J
Silver	7440-22-4	1200 U	2800	720 J	840 J	2300	530 J
Sodium	7440-23-5	224000 J	132000 J	313000 J	285000 J	190000 J	256000 J
Thallium	7440-28-0	3000 U	3100 U	3200 U	3500 U	210 J	190 J
Vanadium	7440-62-2	9800	36500	27400	28800	23100	14200
Zinc	7440-66-6	21700 J	285000 J	254000 J	257000 J	305000 J	791000 J

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-48	SB-49	SB-49	SB-49	SB-50	SB-50
Sample ID		SB-48-20-20.5	SB-49-0.5-1.0-3	SB-49-15.1-15.6-3	SB-49-20.0-20.5-3	D-3-05-11-09-04	SB-50-0.5-1.5-3
Sample Date		05/06/2009	05/06/2009	05/06/2009	05/06/2009	05/11/2009	05/11/2009
Sample Interval		20 - 20.5 FT	0.5 - 1 FT	15.1 - 15.6 FT	20 - 20.5 FT	0.5 - 1.5 ft	0.5 - 1.5 FT
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	4250000	8050000	3280000	1760000	6590000	6420000
Antimony	7440-36-0	1000 J	6800 J	6900 UJ	420 J	5600 J	22400 J
Arsenic	7440-38-2	4700 J	30500 J	2500 J	2600 J	13000	12200
Barium	7440-39-3	72600	1850000	26900	67300	615000 J	876000 J
Beryllium	7440-41-7	160 J	500 J	250 J	130 J	370 J	400 J
Cadmium	7440-43-9	950	5400	470 J	520 J	8100	10100
Calcium	7440-70-2	2060000	15000000	4600000	1060000	19500000	15600000
Chromium	7440-47-3	33100	79700	30900	26400	70700	60900
Cobalt	7440-48-4	6300 U	7000	5800 U	5800 U	7800	7800
Copper	7440-50-8	48300	565000	20900	26100	478000	637000
Iron	7439-89-6	6220000	20000000	6820000	4180000	22700000 J	32600000 J
Lead	7439-92-1	258000	1720000	18600	537000	788000	896000
Magnesium	7439-95-4	1120000	3370000	2260000	952000	3620000	3110000
Manganese	7439-96-5	86800	378000	166000	56200	390000	317000
Mercury	7439-97-6	770 J	1800 J	120 UJ	230 J	3700	3600
Nickel	7440-02-0	12400	119000	9900	7100	74800 J	99800 J
Potassium	7440-09-7	324000 J	656000	708000	318000 J	685000	704000
Selenium	7782-49-2	4400 U	1800 J	4100 U	4100 U	2300 J	2100 J
Silver	7440-22-4	350 J	16100	210 J	1200 U	3300	3600
Sodium	7440-23-5	245000 J	266000 J	122000 J	159000 J	200000 J	223000 J
Thallium	7440-28-0	180 J	370 J	2900 U	2900 U	3100 U	3100 U
Vanadium	7440-62-2	10300	35800	10100	6400	26400	26100
Zinc	7440-66-6	131000 J	1020000 J	36100 J	125000 J	735000 J	795000 J

Analytical Results - Metals
Soil
Diamond Head RI/FS Operable Unit 2

Station ID		SB-50	SB-50	SB-51	SB-51	SB-51
Sample ID		SB-50-20.0-21.0-3	SB-50-29.0-30.0-3	SB-51-0.5-1.5-3	SB-51-16.0-17.0-3	SB-51-25.0-26.0-3
Sample Date		05/11/2009	05/11/2009	05/11/2009	05/11/2009	05/11/2009
Sample Interval		20 - 21 FT	29 - 30 FT	0.5 - 1.5 FT	16 - 17 FT	25 - 26 FT
Chemical Name	**CAS Number**					
Metals (ug/kg)						
Aluminum	7429-90-5	3840000	1930000	7310000	7580000	7470000
Antimony	7440-36-0	8100 J	1600 J	5000 J	8300 J	4900 J
Arsenic	7440-38-2	12200	1900	16300	21600	17900
Barium	7440-39-3	258000	42000	574000	693000	439000
Beryllium	7440-41-7	210 J	120 J	390 J	400 J	410 J
Cadmium	7440-43-9	2700	630 U	6800	9700	4200
Calcium	7440-70-2	5420000	1140000	11900000	11700000	11100000
Chromium	7440-47-3	1150000	26800	182000	183000	157000
Cobalt	7440-48-4	6600 U	6300 U	8600	9500 U	8100 U
Copper	7440-50-8	188000	38100	384000	449000	309000
Iron	7439-89-6	18900000	4880000	33400000	31700000	24200000
Lead	7439-92-1	795000	178000	1460000	2330000	1180000
Magnesium	7439-95-4	2000000	728000	2530000	2880000	2620000
Manganese	7439-96-5	169000	46000	202000	274000	220000
Mercury	7439-97-6	2800	210	5500	3400	3500
Nickel	7440-02-0	46200 J	8400 J	83700 J	72700 J	49600 J
Potassium	7440-09-7	484000 J	216000 J	581000 J	852000 J	733000 J
Selenium	7782-49-2	1500 J	4400 U	1900 J	1800 J	1500 J
Silver	7440-22-4	1700	1300 U	5300	4000	2800
Sodium	7440-23-5	821000	178000 J	179000 J	1570000	1130000
Thallium	7440-28-0	3300 U	3200 U	3500 U	4700 U	4000 U
Vanadium	7440-62-2	37600	7000	62100	37500	34100
Zinc	7440-66-6	682000 J	89300 J	889000 J	1300000 J	840000 J

Table Analytical Results Volatile Organic Compounds Berm

Analytical Results - Volatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-52-Berm	SB-52-Berm	SB-53-Berm	SB-55-Berm	SB-55-Berm	SB-56-Berm
Sample ID		SB-52-13.5-14.4-3DL	SB-52-16.3-17.3-3	SB-53-13.5-14.5-3	SB-55-17.5-18.5-3DL	SB-55-2.2-3.2-3	SB-56-6.4-7.4-3
Sample Date		05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/22/2009
Sample Interval		13.5 - 14.5 ft	16.3 - 17.3 ft	13.5 - 14.5 ft	17.5 - 18.5 ft	2.2 - 3.2 ft	6.4 - 7.4 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	1100 U	730 R	28	1300 U	880 R	1900 U
Benzene	71-43-2	110 J	360 R	6.1 U	150 J	320 J	330 J
Bromoform	75-25-2	540 UJ	360 R	6.1 UJ	660 UJ	440 R	960 UJ
Bromomethane	74-83-9	540 UJ	360 R	6.1 U	660 UJ	440 R	960 U
Carbon disulfide	75-15-0	540 UJ	360 R	11	660 UJ	1100 J	960 U
Carbon tetrachloride	56-23-5	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Chlorobenzene	108-90-7	270 J	64 J	1.2 J	660 UJ	6400 J	250 J
Chloroethane	75-00-3	540 UJ	360 R	6.1 U	660 UJ	440 R	960 U
Chloroform	67-66-3	540 UJ	360 R	25 J	660 UJ	440 R	960 UJ
Chloromethane	74-87-3	540 UJ	360 R	6.1 U	660 UJ	440 R	960 U
Cyclohexane	110-82-7	540 UJ	220 J	28	840 J	440 R	960 UJ
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	540 UJ	360 R	6.1 UJ	660 R	440 R	960 U
Dibromochloromethane	124-48-1	540 UJ	360 R	6.1 UJ	660 UJ	440 R	960 UJ
Dibromoethane-1,2	106-93-4	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Dichlorobenzene-1,2	95-50-1	540 UJ	360 UJ	22 J	1900 J	8000 J	4400 J
Dichlorobenzene-1,3	541-73-1	540 UJ	360 R	1.3 J	99 J	79 J	350 J
Dichlorobenzene-1,4	106-46-7	340 J	360 R	5.3 J	200 J	540 J	770 J
Dichlorobromomethane	75-27-4	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Dichlorodifluoromethane	75-71-8	540 UJ	360 R	6.1 U	660 UJ	440 R	960 U
Dichloroethane-1,1	75-34-3	540 UJ	360 R	6.1 UJ	660 UJ	440 R	960 UJ
Dichloroethane-1,2	107-06-2	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Dichloroethene-1,2 trans	156-60-5	540 U	360 R	6.1 U	660 UJ	440 R	960 U
Dichloroethylene-1,1	75-35-4	540 U	360 R	6.1 U	660 UJ	440 R	960 U
Dichloroethylene-1,2 cis	156-59-2	540 U	360 R	6.1 U	660 UJ	990 J	960 U
Dichloropropane-1,2	78-87-5	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Dichloropropene-1,3 cis	10061-01-5	540 UJ	360 R	6.1 U	660 UJ	440 R	270 J
Dichloropropene-1,3 trans	10061-02-6	94 J	360 R	6.1 U	660 UJ	440 R	960 UJ
Dioxane, 1,4-	123-91-1	11000 R	7300 R	120 R	13000 R	8800 R	19000 R
Ethylbenzene	100-41-4	590 J	400 J	6.1 UJ	3000 J	3000 J	7000 J
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	540 UJ	360 R	6.1 UJ	660 UJ	440 R	960 UJ

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Analytical Results - Volatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-52-Berm	SB-52-Berm	SB-53-Berm	SB-55-Berm	SB-55-Berm	SB-56-Berm
Sample ID		SB-52-13.5-14.4-3DL	SB-52-16.3-17.3-3	SB-53-13.5-14.5-3	SB-55-17.5-18.5-3DL	SB-55-2.2-3.2-3	SB-56-6.4-7.4-3
Sample Date		05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/22/2009
Sample Interval		13.5 - 14.5 ft	16.3 - 17.3 ft	13.5 - 14.5 ft	17.5 - 18.5 ft	2.2 - 3.2 ft	6.4 - 7.4 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	440 J	730 R	12 U	1300 U	880 R	1900 U
Isopropylbenzene	98-82-8	840 J	180 J	7.9 J	610 J	1100 J	1400 J
Methyl acetate	79-20-9	190 J	360 R	6.1 U	660 UJ	1500 J	960 UJ
Methyl cyclohexane	108-87-2	540 UJ	620 J	6.1 U	1300 J	440 UJ	1200 J
Methyl ethyl ketone (2-butanone)	78-93-3	1100 U	730 R	12 U	1300 U	880 UJ	1900 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	1100 U	730 R	12 U	1300 U	430 J	1900 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Methylene chloride	75-09-2	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Styrene	100-42-5	540 UJ	360 R	6.1 UJ	660 UJ	440 R	960 UJ
Tetrachloroethane-1,1,2,2	79-34-5	540 UJ	360 R	6.1 UJ	660 R	440 R	960 U
Tetrachloroethylene	127-18-4	540 UJ	360 R	6.1 UJ	460 J	12000 J	960 UJ
Toluene	108-88-3	540 UJ	360 R	0.95 J	4200 J	1300 J	530 J
Trichlorobenzene-1,2,3	87-61-6	540 UJ	360 R	6.1 UJ	660 UJ	440 R	960 UJ
Trichlorobenzene-1,2,4	120-82-1	540 UJ	41 J	6.1 UJ	210 J	73 J	290 J
Trichloroethane-1,1,1	71-55-6	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Trichloroethane-1,1,2	79-00-5	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Trichloroethylene	79-01-6	540 UJ	360 R	1.7 J	160 J	9300 J	960 UJ
Trichlorofluoromethane	75-69-4	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Vinyl chloride	75-01-4	540 UJ	360 R	6.1 U	660 UJ	440 R	960 UJ
Xylene-o	95-47-6	540 UJ	510 J	16 J	5300 J	3100 J	12000 J
XYLENES, M & P	179601-23-1	540 UJ	710 J	17 J	12000 J	9000 J	26000 J

Analytical Results - Volatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-56-Berm
Sample ID		SB-56-15.5-16.5-3
Sample Date		05/29/2009
Sample Interval		15.5 - 16.5 ft
Chemical Name	**CAS Number**	
Volatile Organic Compounds (ug/kg)		
Acetone	67-64-1	1800 U
Benzene	71-43-2	410 J
Bromoform	75-25-2	920 U
Bromomethane	74-83-9	920 U
Carbon disulfide	75-15-0	920 U
Carbon tetrachloride	56-23-5	920 U
Chlorobenzene	108-90-7	730 J
Chloroethane	75-00-3	920 U
Chloroform	67-66-3	920 U
Chloromethane	74-87-3	920 U
Cyclohexane	110-82-7	520 J
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	920 U
Dibromochloromethane	124-48-1	920 U
Dibromoethane-1,2	106-93-4	920 U
Dichlorobenzene-1,2	95-50-1	4200
Dichlorobenzene-1,3	541-73-1	560 J
Dichlorobenzene-1,4	106-46-7	1400
Dichlorobromomethane	75-27-4	920 U
Dichlorodifluoromethane	75-71-8	920 U
Dichloroethane-1,1	75-34-3	920 U
Dichloroethane-1,2	107-06-2	920 U
Dichloroethene-1,2 trans	156-60-5	920 U
Dichloroethylene-1,1	75-35-4	920 U
Dichloroethylene-1,2 cis	156-59-2	920 U
Dichloropropane-1,2	78-87-5	920 U
Dichloropropene-1,3 cis	10061-01-5	920 U
Dichloropropene-1,3 trans	10061-02-6	920 U
Dioxane, 1,4-	123-91-1	18000 R
Ethylbenzene	100-41-4	9000
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	920 U

8/19/2009

Analytical Results - Volatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		**SB-56-Berm**
Sample ID		**SB-56-15.5-16.5-3**
Sample Date		**05/29/2009**
Sample Interval		**15.5 - 16.5 ft**
Chemical Name	**CAS Number**	
Volatile Organic Compounds (ug/kg)		
Hexanone-2	591-78-6	1800 U
Isopropylbenzene	98-82-8	1700
Methyl acetate	79-20-9	920 U
Methyl cyclohexane	108-87-2	1200
Methyl ethyl ketone (2-butanone)	78-93-3	1800 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	1800 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	920 U
Methylene chloride	75-09-2	920 U
Styrene	100-42-5	920 U
Tetrachloroethane-1,1,2,2	79-34-5	920 U
Tetrachloroethylene	127-18-4	920 U
Toluene	108-88-3	1400
Trichlorobenzene-1,2,3	87-61-6	920 U
Trichlorobenzene-1,2,4	120-82-1	210 J
Trichloroethane-1,1,1	71-55-6	920 U
Trichloroethane-1,1,2	79-00-5	920 U
Trichloroethylene	79-01-6	920 U
Trichlorofluoromethane	75-69-4	920 U
Vinyl chloride	75-01-4	920 U
Xylene-o	95-47-6	14000
XYLENES, M & P	179601-23-1	32000

Table Analytical Results Semivolatile Organic Compounds
Berm

Analytical Results - Semivolatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-52-Berm	SB-52-Berm	SB-53-Berm	SB-55-Berm	SB-55-Berm	SB-56-Berm
Sample ID		SB-52-13.5-14.4-3	SB-52-16.3-17.3-3	SB-53-13.5-14.5-3	SB-55-17.5-18.5-3	SB-55-2.2-3.2-3	SB-56-6.4-7.4-3
Sample Date		05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/22/2009
Sample Interval		13.5 - 14.5 ft	16.3 - 17.3 ft	13.5 - 14.5 ft	17.5 - 18.5 ft	2.2 - 3.2 ft	6.4 - 7.4 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	14000	9100	190 U	640 J	1400	3200 J
Acenaphthylene	208-96-8	1300 U	1100	190 U	310 J	550 J	940 J
Acetophenone	98-86-2	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Anthracene	120-12-7	6900	4800	44 J	900 J	1100 J	2700 J
Atrazine	1912-24-9	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Benzaldehyde	100-52-7	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Benzo(a)anthracene	56-55-3	6300	4600	29 J	1500	2300	4400
Benzo(a)pyrene	50-32-8	5700	4500	21 J	1100	2300	4400 J
Benzo(b)fluoranthene	205-99-2	5300	4900	32 J	1700	3800	5400 J
Benzo(g,h,I)perylene	191-24-2	2800	2500	190 U	930 J	1900	3000 J
Benzo(k)fluoranthene	207-08-9	2200	1800	190 U	550 J	1300	1800 J
Biphenyl	92-52-4	360 J	360 J	190 U	220 J	260 J	600 J
Bromophenyl-4 Phenyl Ether	101-55-3	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Butylbenzyl phthalate	85-68-7	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Caprolactam	105-60-2	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Carbazole	86-74-8	560 J	300 J	190 U	1000 U	220 J	370 J
Chloroaniline-4	106-47-8	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Chloronaphthalene-2	91-58-7	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Chlorophenol-2	95-57-8	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Chlorophenyl-4 phenyl ether	7005-72-3	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Chrysene	218-01-9	6500	5000	40 J	1600	2700	4900
Cresol-4,6-dinitro-ortho	534-52-1	2400 U	2100 U	360 U	1900 U	2400 U	4800 U
Cresol-o	95-48-7	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Cresol-p	106-44-5	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Cresol-parachloro-meta	59-50-7	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Dibenzo(a,h)anthracene	53-70-3	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Dibenzofuran	132-64-9	1400	880 J	190 U	190 J	250 J	490 J
Dichlorobenzidine-3,3	91-94-1	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Dichlorophenol-2,4	120-83-2	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Dimethylphenol-2,4	105-67-9	1300 U	1100 U	190 U	1000 U	1200 U	2500 U

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Analytical Results - Semivolatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-52-Berm	SB-52-Berm	SB-53-Berm	SB-55-Berm	SB-55-Berm	SB-56-Berm
Sample ID		SB-52-13.5-14.4-3	SB-52-16.3-17.3-3	SB-53-13.5-14.5-3	SB-55-17.5-18.5-3	SB-55-2.2-3.2-3	SB-56-6.4-7.4-3
Sample Date		05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/22/2009
Sample Interval		13.5 - 14.5 ft	16.3 - 17.3 ft	13.5 - 14.5 ft	17.5 - 18.5 ft	2.2 - 3.2 ft	6.4 - 7.4 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	2400 U	2100 U	360 UJ	1900 U	2400 U	4800 U
Dinitrotoluene-2,4	121-14-2	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Dinitrotoluene-2,6	606-20-2	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Ether, bis(2-chloroethyl)	111-44-4	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Ether, bis-chloroisopropyl	108-60-1	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Fluoranthene	206-44-0	12000	8400	69 J	2500	4200	7600
Fluorene	86-73-7	7300	4900	54 J	690 J	990 J	2300 J
Hexachlorobenzene	118-74-1	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Hexachlorobutadiene	87-68-3	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Hexachlorocyclopentadiene	77-47-4	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Hexachloroethane	67-72-1	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Indeno(1,2,3-cd)pyrene	193-39-5	2800	2300	190 U	780 J	1600	2700 J
Isophorone	78-59-1	1300 U	1100 U	190 UJ	1000 U	1200 U	2500 U
Methane, bis(2-chloroethoxy)	111-91-1	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Methylnaphthalene-2	91-57-6	7400	5200	160 J	3700	1100 J	8200 J
Naphthalene	91-20-3	13000	8200	66 J	3000	1300	5200 J
Nitroaniline-2	88-74-4	2400 U	2100 U	360 UJ	1900 U	2400 U	4800 U
Nitroaniline-3	99-09-2	2400 U	2100 U	360 UJ	1900 U	2400 U	4800 U
Nitroaniline-4	100-01-6	2400 U	2100 U	360 UJ	1900 U	2400 U	4800 U
Nitrobenzene	98-95-3	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Nitrophenol-2	88-75-5	1300 U	1100 U	190 UJ	1000 U	1200 U	2500 U
Nitrophenol-4	100-02-7	2400 U	2100 U	360 UJ	1900 U	2400 U	4800 U
Nitroso-di-n-propyl-amine-N	621-64-7	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Nitrosodiphenylamine-n	86-30-6	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
PCP (Pentachlorophenol)	87-86-5	2400 U	2100 U	360 U	1900 U	2400 U	4800 U
Phenanthrene	85-01-8	15000	17000	110 J	2600	3100	8700 J
Phenol	108-95-2	1300 U	1100 U	190 U	1000 U	330 J	2500 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	13000	3700	150 J	1700	8500	12000
Phthalate, diethyl	84-66-2	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Phthalate, dimethyl	131-11-3	1300 U	1100 U	190 U	1000 U	1200 U	2500 U

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Analytical Results - Semivolatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-52-Berm	SB-52-Berm	SB-53-Berm	SB-55-Berm	SB-55-Berm	SB-56-Berm
Sample ID		SB-52-13.5-14.4-3	SB-52-16.3-17.3-3	SB-53-13.5-14.5-3	SB-55-17.5-18.5-3	SB-55-2.2-3.2-3	SB-56-6.4-7.4-3
Sample Date		05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/22/2009
Sample Interval		13.5 - 14.5 ft	16.3 - 17.3 ft	13.5 - 14.5 ft	17.5 - 18.5 ft	2.2 - 3.2 ft	6.4 - 7.4 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	1300 U	1100 U	22 J	1000 U	370 J	2500 U
Phthalate, di-n-octyl	117-84-0	240 J	1100 U	190 U	1000 U	1200 U	2500 U
Pyrene	129-00-0	14000	9500	100 J	2800	4300	8800
Tetrachlorobenzene-1,2,4,5	95-94-3	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Tetrachlorophenol-2,3,4,6	58-90-2	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Trichlorophenol-2,4,5	95-95-4	1300 U	1100 U	190 U	1000 U	1200 U	2500 U
Trichlorophenol-2,4,6	88-06-2	1300 U	1100 U	190 U	1000 U	1200 U	2500 U

Analytical Results - Semivolatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		**SB-56-Berm**
Sample ID		**SB-56-15.5-16.5-3**
Sample Date		**05/29/2009**
Sample Interval		**15.5 - 16.5 ft**
Chemical Name	**CAS Number**	
Semivolatile Organic Compounds (ug/kg)		
Acenaphthene	83-32-9	2500
Acenaphthylene	208-96-8	800 J
Acetophenone	98-86-2	2300 U
Anthracene	120-12-7	2500
Atrazine	1912-24-9	2300 U
Benzaldehyde	100-52-7	2300 U
Benzo(a)anthracene	56-55-3	3200
Benzo(a)pyrene	50-32-8	3200
Benzo(b)fluoranthene	205-99-2	3900
Benzo(g,h,I)perylene	191-24-2	2200 J
Benzo(k)fluoranthene	207-08-9	1500 J
Biphenyl	92-52-4	1100 J
Bromophenyl-4 Phenyl Ether	101-55-3	2300 U
Butylbenzyl phthalate	85-68-7	2300 U
Caprolactam	105-60-2	2300 U
Carbazole	86-74-8	370 J
Chloroaniline-4	106-47-8	2300 U
Chloronaphthalene-2	91-58-7	2300 U
Chlorophenol-2	95-57-8	2300 U
Chlorophenyl-4 phenyl ether	7005-72-3	2300 U
Chrysene	218-01-9	3800
Cresol-4,6-dinitro-ortho	534-52-1	4600 U
Cresol-o	95-48-7	2300 U
Cresol-p	106-44-5	2300 U
Cresol-parachloro-meta	59-50-7	2300 U
Dibenzo(a,h)anthracene	53-70-3	2300 U
Dibenzofuran	132-64-9	560 J
Dichlorobenzidine-3,3	91-94-1	2300 U
Dichlorophenol-2,4	120-83-2	2300 U
Dimethylphenol-2,4	105-67-9	2300 U

Analytical Results - Semivolatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		**SB-56-Berm**
Sample ID		**SB-56-15.5-16.5-3**
Sample Date		**05/29/2009**
Sample Interval		**15.5 - 16.5 ft**
Chemical Name	**CAS Number**	
Semivolatile Organic Compounds (ug/kg)		
Dinitrophenol-2,4	51-28-5	4600 U
Dinitrotoluene-2,4	121-14-2	2300 U
Dinitrotoluene-2,6	606-20-2	2300 U
Ether, bis(2-chloroethyl)	111-44-4	2300 U
Ether, bis-chloroisopropyl	108-60-1	2300 U
Fluoranthene	206-44-0	5900
Fluorene	86-73-7	2100 J
Hexachlorobenzene	118-74-1	2300 U
Hexachlorobutadiene	87-68-3	2300 U
Hexachlorocyclopentadiene	77-47-4	2300 U
Hexachloroethane	67-72-1	2300 U
Indeno(1,2,3-cd)pyrene	193-39-5	1900 J
Isophorone	78-59-1	2300 U
Methane, bis(2-chloroethoxy)	111-91-1	2300 U
Methylnaphthalene-2	91-57-6	11000
Naphthalene	91-20-3	7000
Nitroaniline-2	88-74-4	4600 U
Nitroaniline-3	99-09-2	4600 U
Nitroaniline-4	100-01-6	4600 U
Nitrobenzene	98-95-3	2300 U
Nitrophenol-2	88-75-5	2300 U
Nitrophenol-4	100-02-7	4600 U
Nitroso-di-n-propyl-amine-N	621-64-7	2300 U
Nitrosodiphenylamine-n	86-30-6	2300 U
PCP (Pentachlorophenol)	87-86-5	4600 U
Phenanthrene	85-01-8	8000
Phenol	108-95-2	2300 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	22000
Phthalate, diethyl	84-66-2	2300 U
Phthalate, dimethyl	131-11-3	2300 U

Analytical Results - Semivolatile Organic Compounds
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		**SB-56-Berm**
Sample ID		**SB-56-15.5-16.5-3**
Sample Date		**05/29/2009**
Sample Interval		**15.5 - 16.5 ft**
Chemical Name	**CAS Number**	
Semivolatile Organic Compounds (ug/kg)		
Phthalate, di-n-butyl	84-74-2	240 J
Phthalate, di-n-octyl	117-84-0	2300 U
Pyrene	129-00-0	7000
Tetrachlorobenzene-1,2,4,5	95-94-3	2300 U
Tetrachlorophenol-2,3,4,6	58-90-2	2300 U
Trichlorophenol-2,4,5	95-95-4	2300 U
Trichlorophenol-2,4,6	88-06-2	2300 U

Table Analytical Results Pesticides PCBs Berm

Analytical Results - Pesticides/PCBs
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-52-Berm	SB-52-Berm	SB-53-Berm	SB-55-Berm	SB-55-Berm	SB-56-Berm
Sample ID		SB-52-13.5-14.4-3	SB-52-16.3-17.3-3	SB-53-13.5-14.5-3	SB-55-17.5-18.5-3	SB-55-2.2-3.2-3	SB-56-6.4-7.4-3
Sample Date		05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/22/2009
Sample Interval		13.5 - 14.5 FT	16.3 - 17.3 FT	13.5 - 14.5 FT	17.5 - 18.5 FT	2.2 - 3.2 FT	6.4 - 7.4 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	11 JN	8.1 JN	1.9 UJ	5.8 J	7.9 R	28 J
BHC, alpha	319-84-6	2.5 UJ	2.1 UJ	1.9 UJ	2 UJ	3.7 J	2.5 UJ
BHC, beta	319-85-7	15 J	8.6 JN	1.9 U	2 U	7.3 R	19 JN
BHC, delta	319-86-8	2.5 UJ	2.1 R	1.9 U	2 U	2.5 UJ	2.5 UJ
BHC, gamma (Lindane)	58-89-9	2.5 UJ	2.1 UJ	1.9 U	2 U	2.5 UJ	2.5 UJ
Chlordane - alpha	5103-71-9	2.5 R	2.1 UJ	1.9 U	2.4 J	2.5 UJ	12 R
Chlordane - beta	5103-74-2	12 R	8.3 R	1.9 U	16 R	49 R	52 J
DDD-4,4	72-54-8	77 J	31 J	3.8 UJ	23 J	140 J	14 R
DDE-4,4	72-55-9	5 UJ	4.4 UJ	3.8 UJ	4 UJ	33 R	16 JN
DDT-4,4	50-29-3	5 UJ	16 JN	3.8 UJ	4.6 R	64 R	23 JN
Dieldrin	60-57-1	5 UJ	4.4 UJ	2.5 J	4 U	15 R	6.8 JN
Endosulfan I (alpha)	959-98-8	2.5 UJ	2.1 UJ	1.9 U	2 U	7 R	3.7 R
Endosulfan II (beta)	33213-65-9	17 J	12 J	0.87 J	7	7.2 R	26 R
Endosulfan Sulfate	1031-07-8	8.8 J	4.4 UJ	3.8 U	4 U	5 UJ	5.6 R
Endrin	72-20-8	5 UJ	4.4 UJ	0.23 J	4 UJ	5 UJ	10 R
Endrin Aldehyde	7421-93-4	5 UJ	5.5 J	3.8 UJ	4 UJ	18 J	47 R
Endrin ketone	53494-70-5	5 UJ	2.3 J	3.8 UJ	5.9 R	5 UJ	13 R
Heptachlor	76-44-8	5.5 J	3.5 JN	2.3	13 J	18 J	3 R
Heptachlor Epoxide	1024-57-3	3.6 R	2.2 R	1.9 U	5.7	10 R	3.4 R
Methoxychlor	72-43-5	25 UJ	21 UJ	19 U	20 U	5 UJ	59 R
Toxaphene	8001-35-2	250 R	210 R	190 U	200 U	250 U	250 UJ
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	48 U	41 U	36 U	39 UJ	48 U	47 U
Pcb-araclor 1221	11104-28-2	48 U	41 U	36 U	39 UJ	48 U	47 U
Pcb-araclor 1232	11141-16-5	48 U	41 U	36 U	39 UJ	48 U	47 U
Pcb-araclor 1242	53469-21-9	490 NJ	670 R	93	610 J	1000 J	2900 J
Pcb-araclor 1248	12672-29-6	48 U	41 U	36 U	39 UJ	48 U	47 U
Pcb-araclor 1254	11097-69-1	48 U	41 U	36 U	39 UJ	48 U	47 U
Pcb-araclor 1260	11096-82-5	190 J	150	41 NJ	450 J	560 J	310 R

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Analytical Results - Pesticides/PCBs
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-52-Berm	SB-52-Berm	SB-53-Berm	SB-55-Berm	SB-55-Berm	SB-56-Berm
Sample ID		SB-52-13.5-14.4-3	SB-52-16.3-17.3-3	SB-53-13.5-14.5-3	SB-55-17.5-18.5-3	SB-55-2.2-3.2-3	SB-56-6.4-7.4-3
Sample Date		05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/22/2009
Sample Interval		13.5 - 14.5 FT	16.3 - 17.3 FT	13.5 - 14.5 FT	17.5 - 18.5 FT	2.2 - 3.2 FT	6.4 - 7.4 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	48 U	41 U	36 U	39 UJ	48 U	47 U
Pcb-araclor 1268	11100-14-4	48 U	41 U	36 U	39 UJ	48 U	47 U

Analytical Results - Pesticides/PCBs
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		**SB-56-Berm**
Sample ID		**SB-56-15.5-16.5-3**
Sample Date		**05/29/2009**
Sample Interval		**15.5 - 16.5 FT**
Chemical Name	**CAS Number**	
Pesticides (ug/kg)		
Aldrin	309-00-2	42 J
BHC, alpha	319-84-6	2.3 UJ
BHC, beta	319-85-7	11 R
BHC, delta	319-86-8	2.3 R
BHC, gamma (Lindane)	58-89-9	2.3 R
Chlordane - alpha	5103-71-9	9.8 R
Chlordane - beta	5103-74-2	50 R
DDD-4,4	72-54-8	14 R
DDE-4,4	72-55-9	14 J
DDT-4,4	50-29-3	6 R
Dieldrin	60-57-1	7.2 JN
Endosulfan I (alpha)	959-98-8	4.4 JN
Endosulfan II (beta)	33213-65-9	25 JN
Endosulfan Sulfate	1031-07-8	4.6 UJ
Endrin	72-20-8	4.6 UJ
Endrin Aldehyde	7421-93-4	40 R
Endrin ketone	53494-70-5	13 R
Heptachlor	76-44-8	2.3 UJ
Heptachlor Epoxide	1024-57-3	15 JN
Methoxychlor	72-43-5	23 UJ
Toxaphene	8001-35-2	230 R
Aroclors (ug/kg)		
Pcb-araclor 1016	12674-11-2	45 U
Pcb-araclor 1221	11104-28-2	45 U
Pcb-araclor 1232	11141-16-5	45 U
Pcb-araclor 1242	53469-21-9	1800 J
Pcb-araclor 1248	12672-29-6	45 U
Pcb-araclor 1254	11097-69-1	45 U
Pcb-araclor 1260	11096-82-5	410 NJ

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Analytical Results - Pesticides/PCBs
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		**SB-56-Berm**
Sample ID		**SB-56-15.5-16.5-3**
Sample Date		**05/29/2009**
Sample Interval		**15.5 - 16.5 FT**
Chemical Name	**CAS Number**	
Aroclors (ug/kg)		
Pcb-araclor 1262	37324-23-5	45 U
Pcb-araclor 1268	11100-14-4	45 U

Table Analytical Results Metals Berm

Analytical Results - Metals
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-52-Berm	SB-52-Berm	SB-53-Berm	SB-54-Berm	SB-55-Berm	SB-55-Berm
Sample ID		SB-52-13.5-14.4-3	SB-52-16.3-17.3-3	SB-53-13.5-14.5-3	SB-54-13.5-14.5-3	SB-55-17.5-18.5-3	SB-55-2.2-3.2-3
Sample Date		05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		13.5 - 14.5 ft	16.3 - 17.3 ft	13.5 - 14.5 ft	13.5 - 14.5 ft	17.5 - 18.5 ft	2.2 - 3.2 ft
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	6210000	1910000	8680000	3910000	2460000	7400000
Antimony	7440-36-0	9200 U	7200 U	6600 U	7100 U	6900 U	8200 U
Arsenic	7440-38-2	14000	3200	900 J	6200	4300	33100
Barium	7440-39-3	200000 J	48100 J	50600 J	154000 J	76800 J	454000 J
Beryllium	7440-41-7	300 J	600 U	220 J	220 J	220 J	480 J
Cadmium	7440-43-9	2300	600	550 U	840	430 J	6800
Calcium	7440-70-2	3880000	1380000	43400000	26000000	6710000	8030000
Chromium	7440-47-3	107000	24800	8200	32700	25600	163000
Cobalt	7440-48-4	6400 J	3800 J	7700	3600 J	41800	9600
Copper	7440-50-8	233000	42600	64200	81100	34400	308000
Iron	7439-89-6	17900000	7500000	14000000	9280000	7520000	29900000
Lead	7439-92-1	300000	79700	8900	814000	112000	2150000
Magnesium	7439-95-4	2030000	841000	3910000	1660000	904000	2220000
Manganese	7439-96-5	163000	71300	202000	84800	453000	269000
Mercury	7439-97-6	3300	220	110 U	510	350	2500
Nickel	7440-02-0	32800	13400	8000	18400	60300	48800
Potassium	7440-09-7	602000 J	313000 J	701000	391000 J	518000 J	732000
Selenium	7782-49-2	5300 U	4200 U	3800 U	4100 U	4000 U	2000 J
Silver	7440-22-4	1800	1200 U	1100 U	540 J	1200 U	3300
Sodium	7440-23-5	763000 U	599000 U	535000 J	462000 J	207000 J	467000 J
Thallium	7440-28-0	3800 U	3000 U	2700 U	3000 U	2900 U	3400 U
Vanadium	7440-62-2	22300	7700	24500	16600	9000	31900
Zinc	7440-66-6	331000	79500	25200	169000	96800	814000

Analytical Results - Metals
Berms
Diamond Head RI/FS Operable Unit 2

Station ID		SB-56-Berm	SB-56-Berm
Sample ID		SB-56-6.4-7.4-3	SB-56-15.5-16.5-3
Sample Date		05/22/2009	05/29/2009
Sample Interval		6.4 - 7.4 ft	15.5 - 16.5 ft
Chemical Name	**CAS Number**		
Metals (ug/kg)			
Aluminum	7429-90-5	9170000	6580000
Antimony	7440-36-0	7600 U	8200 U
Arsenic	7440-38-2	35800	19900
Barium	7440-39-3	636000 J	491000 J
Beryllium	7440-41-7	600 J	400 J
Cadmium	7440-43-9	17000	5700
Calcium	7440-70-2	4610000	7540000
Chromium	7440-47-3	277000	135000
Cobalt	7440-48-4	8500	6700 J
Copper	7440-50-8	442000	396000
Iron	7439-89-6	19900000	22200000
Lead	7439-92-1	7700000	2490000
Magnesium	7439-95-4	3040000	2120000
Manganese	7439-96-5	227000	193000
Mercury	7439-97-6	5300	3800
Nickel	7440-02-0	61100	48400
Potassium	7440-09-7	1170000	778000
Selenium	7782-49-2	2200 J	4800 U
Silver	7440-22-4	5100	318000
Sodium	7440-23-5	1150000	1490000
Thallium	7440-28-0	3200 U	3400 U
Vanadium	7440-62-2	36200	31300
Zinc	7440-66-6	1130000	710000

Table Analytical Results Volatile Organic Compounds
Groundwater

Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-01S	MW-02S	MW-03S	MW-04S	MW-05S	MW-06S
Sample ID		MW-01S-3	MW-02S-3	MW-03S-3	MW-04S-3	MW-05S-3	MW-06S-3
Sample Date		06/01/2009	06/01/2009	06/11/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Acetone	67-64-1	5 U	44	48	3 J	6.7	2.9 J
Benzene	71-43-2	0.5 U	3.2	13	11	0.41 J	0.24 J
Bromoform	75-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	75-15-0	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U
Carbon tetrachloride	56-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	33	0.5 U	0.19 J	9.9	0.97	0.08 J
Chlorobromomethane	74-97-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	75-00-3	0.29 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	67-66-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	0.66	0.55	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	110-82-7	0.5 U	0.5 UJ	3.6	0.5 U	0.5 U	0.5 UJ
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	124-48-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromoethane-1,2	106-93-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,2	95-50-1	0.28 J	0.75	8.5	0.4 J	0.5 U	0.5 U
Dichlorobenzene-1,3	541-73-1	0.5 U	0.5 U	0.51	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,4	106-46-7	4.4	0.5 U	0.97	1.9	0.3 J	0.5 U
Dichlorobromomethane	75-27-4	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ
Dichlorodifluoromethane	75-71-8	0.34 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethane-1,1	75-34-3	0.5 U	1.6	0.46 J	0.5 U	0.5 U	0.5 U
Dichloroethane-1,2	107-06-2	0.5 U	0.5 U	0.26 J	0.5 U	0.5 U	0.5 U
Dichloroethene-1,2 trans	156-60-5	0.5 U	0.77	0.08 J	0.5 U	0.5 U	0.5 U
Dichloroethylene-1,1	75-35-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethylene-1,2 cis	156-59-2	0.06 J	2.1	5.3	0.18 J	0.5 U	0.5 U
Dichloropropane-1,2	78-87-5	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ
Dichloropropene-1,3 cis	10061-01-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
Dichloropropene-1,3 trans	10061-02-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
Ethylbenzene	100-41-4	0.5 U	1.5	4.7	0.5 U	0.5 U	0.5 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

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Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-01S	MW-02S	MW-03S	MW-04S	MW-05S	MW-06S
Sample ID		MW-01S-3	MW-02S-3	MW-03S-3	MW-04S-3	MW-05S-3	MW-06S-3
Sample Date		06/01/2009	06/01/2009	06/11/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Hexanone-2	591-78-6	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	98-82-8	0.71	0.2 J	3.1	0.95	0.5 U	0.91
Methyl acetate	79-20-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl cyclohexane	108-87-2	0.5 U	0.88 J	5.1	0.5 U	0.5 U	0.5 UJ
Methyl ethyl ketone (2-butanone)	78-93-3	5 U	11	4.6 J	5 U	5 U	5 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	5 U	8.1	5 U	5 U	5 U	5 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	0.5 U	0.5 U	0.5 U	0.05 J	0.5 U	0.5 U
Methylene chloride	75-09-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100-42-5	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U
Tetrachloroethane-1,1,2,2	79-34-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	127-18-4	0.5 U	0.31 J	0.45 J	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	0.5 U	9.3	1.4	0.11 J	0.12 J	0.13 J
Trichlorobenzene-1,2,3	87-61-6	0.5 U	0.5 U	0.08 J	0.5 U	0.5 U	0.5 U
Trichlorobenzene-1,2,4	120-82-1	0.5 U	0.5 U	0.22 J	0.5 U	0.5 U	0.5 U
Trichloroethane-1,1,1	71-55-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethane-1,1,2	79-00-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
Trichloroethylene	79-01-6	0.5 U	0.74	0.49 J	0.1 J	0.5 U	0.5 U
Trichlorofluoromethane	75-69-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	75-01-4	0.5 U	1	0.5 U	0.5 U	0.5 U	0.5 U
Xylene-o	95-47-6	0.5 U	2.6	5.6	0.5 U	0.5 U	0.64
XYLENES, M & P	179601-23-1	0.5 U	4.9	2.6	0.5 U	0.5 U	0.27 J

Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-07S	MW-07S	MW-09S	MW-10D	MW-10S	MW-11D
Sample ID		D-3-05-29-09-3	MW-07S-3	MW-09S-3DL	MW-10D-3	MW-10S-3	MW-11D-3
Sample Date		05/29/2009	05/29/2009	05/29/2009	06/03/2009	06/03/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Acetone	67-64-1	21	19	5 U	5 U	5 U	5 U
Benzene	71-43-2	1.1	1	0.5 U	0.5 U	0.5 U	4.3
Bromoform	75-25-2	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	75-15-0	0.24 J	0.2 J	0.13 J	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	56-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	0.64	0.66	0.5 UJ	4.9	0.5 U	2.1
Chlorobromomethane	74-97-5	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Chloroethane	75-00-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	67-66-3	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.66
Cyclohexane	110-82-7	0.5 U	0.5 UJ	0.5 UJ	1.2	0.5 U	1.5
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	124-48-1	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Dibromoethane-1,2	106-93-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,2	95-50-1	1.2	1.1	0.5 UJ	2	0.5 U	3
Dichlorobenzene-1,3	541-73-1	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,4	106-46-7	0.64	0.64	0.5 UJ	0.5 U	0.5 U	0.5 U
Dichlorobromomethane	75-27-4	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	75-71-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethane-1,1	75-34-3	0.2 J	0.21 J	0.5 UJ	0.07 J	0.5 U	1.6
Dichloroethane-1,2	107-06-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethene-1,2 trans	156-60-5	0.05 J	0.06 J	0.5 U	0.5 U	0.5 U	0.3 J
Dichloroethylene-1,1	75-35-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethylene-1,2 cis	156-59-2	0.43 J	0.46 J	0.5 U	0.5 U	0.5 U	3.9
Dichloropropane-1,2	78-87-5	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Dichloropropene-1,3 cis	10061-01-5	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Dichloropropene-1,3 trans	10061-02-6	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	0.54	0.52	0.5 U	0.5 U	0.5 U	0.5 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

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Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-07S	MW-07S	MW-09S	MW-10D	MW-10S	MW-11D
Sample ID		D-3-05-29-09-3	MW-07S-3	MW-09S-3DL	MW-10D-3	MW-10S-3	MW-11D-3
Sample Date		05/29/2009	05/29/2009	05/29/2009	06/03/2009	06/03/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Hexanone-2	591-78-6	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	98-82-8	0.25 J	0.23 J	0.5 U	0.8	0.5 U	0.68
Methyl acetate	79-20-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl cyclohexane	108-87-2	0.5 U	0.5 UJ	0.5 UJ	1.1	0.5 U	1.6
Methyl ethyl ketone (2-butanone)	78-93-3	5 U	5 U	2.6 J	5 U	5 U	5 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	0.5 U	0.5 U	0.5 U	0.25 J	0.5 U	0.25 J
Methylene chloride	75-09-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100-42-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethane-1,1,2,2	79-34-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	127-18-4	0.06 J	0.5 U	0.06 J	0.5 U	0.5 U	0.05 J
Toluene	108-88-3	0.47 J	0.47 J	0.5 U	0.55 U	0.5 U	3.2
Trichlorobenzene-1,2,3	87-61-6	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Trichlorobenzene-1,2,4	120-82-1	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.16 J
Trichloroethane-1,1,1	71-55-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethane-1,1,2	79-00-5	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Trichloroethylene	79-01-6	0.11 J	0.11 J	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	75-69-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	75-01-4	0.42 J	0.5	0.5 U	0.5 U	0.5 U	3.1
Xylene-o	95-47-6	0.81	0.75	0.5 U	2.1	0.5 U	6.8
XYLENES, M & P	179601-23-1	0.87	0.95	0.5 U	1.4	0.5 U	7.5

Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-11S	MW-12S	MW-13D	MW-13S	MW-14S	MW-15D
Sample ID		MW-11S-3	MW-12S-3	MW-13D-3	MW-13S-3DL	MW-14S-3	MW-15D-3
Sample Date		06/03/2009	06/02/2009	06/02/2009	06/11/2009	06/02/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Acetone	67-64-1	5 U	450 J	5.5 U	50 U	5.4 U	10
Benzene	71-43-2	0.5 U	20	2.8	39	0.5 U	0.5 U
Bromoform	75-25-2	0.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 UJ
Bromomethane	74-83-9	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Carbon disulfide	75-15-0	0.5 U	2.2	0.5 U	6	0.5 U	0.5 U
Carbon tetrachloride	56-23-5	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	0.5 U	0.5 U	0.85	17	0.5 U	1.2
Chlorobromomethane	74-97-5	0.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 UJ
Chloroethane	75-00-3	0.5 U	0.5 U	0.5 U	3.8 J	0.5 U	0.5 U
Chloroform	67-66-3	0.5 U	0.5 U	0.5 U	5.3 J	0.5 U	0.5 UJ
Chloromethane	74-87-3	0.5 U	0.5 U	0.5 J	2.4 J	0.5 U	0.24 J
Cyclohexane	110-82-7	0.5 U	2	0.5 U	5 UJ	0.5 U	0.5 UJ
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Dibromochloromethane	124-48-1	0.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 UJ
Dibromoethane-1,2	106-93-4	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Dichlorobenzene-1,2	95-50-1	0.5 U	2.7	0.92	38	0.5 U	1.5
Dichlorobenzene-1,3	541-73-1	0.5 U	0.2 J	0.5 U	1.7	0.5 U	0.5 U
Dichlorobenzene-1,4	106-46-7	0.5 U	0.76	0.5 U	3.9 J	0.5 U	0.5 U
Dichlorobromomethane	75-27-4	0.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 UJ
Dichlorodifluoromethane	75-71-8	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Dichloroethane-1,1	75-34-3	0.07 J	1.2	0.22 J	9.4	0.5 U	0.15 J
Dichloroethane-1,2	107-06-2	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Dichloroethene-1,2 trans	156-60-5	0.05 J	5.2	0.5 U	5 U	0.5 U	0.5 U
Dichloroethylene-1,1	75-35-4	0.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U
Dichloroethylene-1,2 cis	156-59-2	3.7	5.4	0.07 J	1.5 J	0.5 U	0.5 U
Dichloropropane-1,2	78-87-5	0.5 U	1	0.5 U	0.22 J	0.5 U	0.5 UJ
Dichloropropene-1,3 cis	10061-01-5	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Dichloropropene-1,3 trans	10061-02-6	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	0.5 U	11	0.5 U	22	0.5 U	0.5 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U

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Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-11S	MW-12S	MW-13D	MW-13S	MW-14S	MW-15D
Sample ID		MW-11S-3	MW-12S-3	MW-13D-3	MW-13S-3DL	MW-14S-3	MW-15D-3
Sample Date		06/03/2009	06/02/2009	06/02/2009	06/11/2009	06/02/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Hexanone-2	591-78-6	5 U	5 U	5 U	50 U	5 U	5 U
Isopropylbenzene	98-82-8	0.5 U	1.5	0.74	6.2	0.5 U	0.5 U
Methyl acetate	79-20-9	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Methyl cyclohexane	108-87-2	0.5 U	2.5	1.4	9.7 J	0.5 U	0.5 UJ
Methyl ethyl ketone (2-butanone)	78-93-3	5 U	100	5 U	3.7 J	5 U	5 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	5 U	1200	5 U	50 U	5 U	5 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	0.5 U	0.5 U	0.1 J	5 U	0.5 U	0.23 J
Methylene chloride	75-09-2	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Styrene	100-42-5	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Tetrachloroethane-1,1,2,2	79-34-5	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Tetrachloroethylene	127-18-4	0.06 J	0.89	0.5 U	5 U	0.5 U	0.5 U
Toluene	108-88-3	0.5 U	45 J	0.5 U	83	0.5 U	0.5 U
Trichlorobenzene-1,2,3	87-61-6	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Trichlorobenzene-1,2,4	120-82-1	0.5 U	0.12 J	0.5 U	1.2 J	0.5 U	0.5 U
Trichloroethane-1,1,1	71-55-6	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Trichloroethane-1,1,2	79-00-5	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Trichloroethylene	79-01-6	0.5 U	19	0.5 U	1.7 J	0.5 U	0.5 U
Trichlorofluoromethane	75-69-4	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U
Vinyl chloride	75-01-4	1.1	1.7	0.5 U	0.98	0.5 U	0.5 U
Xylene-o	95-47-6	0.5 U	31 J	1.8	96	0.5 U	1.1
XYLENES, M & P	179601-23-1	0.5 U	40 J	1.9	140	0.5 U	1.3

Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-15S	MW-17S	MW-18S	MW-19S	MW-20S	MW-20S
Sample ID		MW-15S-3	MW-17S-3	MW-18S-3	MW-19S-3	D-3-06-05-09-2	MW-20S-3
Sample Date		06/03/2009	06/04/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Acetone	67-64-1	5 U	5 U	5 U	250 U	5 U	5 U
Benzene	71-43-2	0.5 U	0.85	1.1	25 U	0.5 U	0.5 U
Bromoform	75-25-2	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Bromomethane	74-83-9	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Carbon disulfide	75-15-0	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Carbon tetrachloride	56-23-5	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	0.5 U	1.8	1.3	25 U	0.5 U	0.5 U
Chlorobromomethane	74-97-5	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Chloroethane	75-00-3	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Chloroform	67-66-3	0.5 U	0.5 U	0.5 U	27 U	0.5 U	0.5 U
Chloromethane	74-87-3	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Cyclohexane	110-82-7	0.5 U	0.5 U	1.2	25 U	0.5 U	0.5 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dibromochloromethane	124-48-1	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dibromoethane-1,2	106-93-4	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dichlorobenzene-1,2	95-50-1	0.5 U	0.36 J	0.87	25 U	0.21 J	0.2 J
Dichlorobenzene-1,3	541-73-1	0.5 U	0.57	0.5 U	25 U	0.5 U	0.5 U
Dichlorobenzene-1,4	106-46-7	0.5 U	0.76	0.5 U	25 U	0.78	0.74
Dichlorobromomethane	75-27-4	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dichlorodifluoromethane	75-71-8	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dichloroethane-1,1	75-34-3	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dichloroethane-1,2	107-06-2	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dichloroethene-1,2 trans	156-60-5	0.5 U	0.5 U	0.5 U	25 U	0.12 J	0.11 J
Dichloroethylene-1,1	75-35-4	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dichloroethylene-1,2 cis	156-59-2	0.5 U	0.16 J	0.14 J	25 U	0.15 J	0.13 J
Dichloropropane-1,2	78-87-5	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dichloropropene-1,3 cis	10061-01-5	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Dichloropropene-1,3 trans	10061-02-6	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	0.5 U	0.5 U	0.5 U	1100	0.5 U	0.5 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U

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Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-15S	MW-17S	MW-18S	MW-19S	MW-20S	MW-20S
Sample ID		MW-15S-3	MW-17S-3	MW-18S-3	MW-19S-3	D-3-06-05-09-2	MW-20S-3
Sample Date		06/03/2009	06/04/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Hexanone-2	591-78-6	5 U	5 U	5 U	250 U	5 U	5 U
Isopropylbenzene	98-82-8	0.5 U	0.54	3.6	41	0.4 J	0.34 J
Methyl acetate	79-20-9	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Methyl cyclohexane	108-87-2	0.5 U	0.5 U	2.1	56	0.5 U	0.92
Methyl ethyl ketone (2-butanone)	78-93-3	5 U	5 U	5 U	250 U	5 U	5 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	5 U	5 U	5 U	250 U	5 U	5 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	0.5 U	0.5 U	0.5 U	25 U	0.18 J	0.15 J
Methylene chloride	75-09-2	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Styrene	100-42-5	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Tetrachloroethane-1,1,2,2	79-34-5	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Tetrachloroethylene	127-18-4	0.5 U	0.5 U	0.33 J	25 U	0.06 J	0.5 U
Toluene	108-88-3	0.5 U	0.5 U	0.5 U	200	0.5 U	0.5 U
Trichlorobenzene-1,2,3	87-61-6	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Trichlorobenzene-1,2,4	120-82-1	0.5 U	0.5 U	0.5 U	25 U	0.08 J	0.07 J
Trichloroethane-1,1,1	71-55-6	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Trichloroethane-1,1,2	79-00-5	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Trichloroethylene	79-01-6	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Trichlorofluoromethane	75-69-4	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U
Vinyl chloride	75-01-4	0.5 U	0.5 U	0.08 J	25 U	0.5 U	0.5 U
Xylene-o	95-47-6	0.5 U	0.5 U	1.3	850	0.6	0.52
XYLENES, M & P	179601-23-1	0.5 U	0.5 U	0.69 U	9700	0.57 U	0.5 U

Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-21S	MW-23S	MW-24S	MW-25S	MW-26S	MW-26S
Sample ID		MW-21S-3	MW-23S-3	MW-24S-3	MW-25S-3	D-3-06-10-09-3	MW-26S-3
Sample Date		06/05/2009	06/11/2009	06/09/2009	06/10/2009	06/10/2009	06/10/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Acetone	67-64-1	51	5 U	7.3 U	10	5 U	5 U
Benzene	71-43-2	0.81	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	75-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	75-15-0	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	56-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	0.5 U	0.5 U	0.5 U	0.95	2.4	2.4
Chlorobromomethane	74-97-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	75-00-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	67-66-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	74-87-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	110-82-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	124-48-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromoethane-1,2	106-93-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,2	95-50-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,3	541-73-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,4	106-46-7	0.5 U	0.5 U	0.5 U	0.15 J	0.5 U	0.16 J
Dichlorobromomethane	75-27-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	75-71-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethane-1,1	75-34-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethane-1,2	107-06-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethene-1,2 trans	156-60-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethylene-1,1	75-35-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethylene-1,2 cis	156-59-2	0.19 J	0.5 U	0.5 U	0.12 J	0.5 U	0.5 U
Dichloropropane-1,2	78-87-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloropropene-1,3 cis	10061-01-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloropropene-1,3 trans	10061-02-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

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Analytical Results - Volatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-21S	MW-23S	MW-24S	MW-25S	MW-26S	MW-26S
Sample ID		MW-21S-3	MW-23S-3	MW-24S-3	MW-25S-3	D-3-06-10-09-3	MW-26S-3
Sample Date		06/05/2009	06/11/2009	06/09/2009	06/10/2009	06/10/2009	06/10/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Hexanone-2	591-78-6	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	98-82-8	0.5 U	0.53	0.5 U	0.54	0.64	0.68
Methyl acetate	79-20-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl cyclohexane	108-87-2	0.5 U	1.1	0.95	0.5 U	0.5 U	0.5 U
Methyl ethyl ketone (2-butanone)	78-93-3	6.8	5 U	5 U	5 U	5 U	5 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	75-09-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	100-42-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethane-1,1,2,2	79-34-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	127-18-4	0.07 J	0.5 U	0.27 J	0.64	0.5 U	0.06 J
Toluene	108-88-3	0.96 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorobenzene-1,2,3	87-61-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorobenzene-1,2,4	120-82-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethane-1,1,1	71-55-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethane-1,1,2	79-00-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene	79-01-6	0.5 U	0.08 J	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	75-69-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	75-01-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene-o	95-47-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
XYLENES, M & P	179601-23-1	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table Analytical Results Semivolatile Organic Compounds Groundwater

Analytical Results - Semivolatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-01S	MW-02S	MW-03S	MW-04S	MW-05S	MW-06S
Sample ID		MW-01S-3	MW-02S-3	MW-03S-3	MW-04S-3	MW-05S-3	MW-06S-3
Sample Date		06/01/2009	06/01/2009	06/11/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Acenaphthene	83-32-9	4.4 J	5 U	10 U	1.9 J	0.92 J	7.6
Acenaphthylene	208-96-8	5 U	5 U	10 U	5 U	5 U	5 U
Acetophenone	98-86-2	5 U	5 U	10 U	5 U	5 U	5 U
Anthracene	120-12-7	5 U	5 U	10 U	5 U	5 U	0.59 J
Atrazine	1912-24-9	5 U	5 U	10 U	5 U	5 U	5 U
Benzaldehyde	100-52-7	5 U	5 U	10 U	5 U	5 U	5 U
Benzo(a)anthracene	56-55-3	5 U	5 U	10 U	5 U	5 U	5 U
Benzo(a)pyrene	50-32-8	5 U	5 U	10 U	5 U	5 U	5 U
Benzo(b)fluoranthene	205-99-2	5 U	5 U	10 U	5 U	5 U	5 U
Benzo(g,h,I)perylene	191-24-2	5 U	5 U	10 U	5 U	5 U	5 U
Benzo(k)fluoranthene	207-08-9	5 U	5 U	10 U	5 U	5 U	5 U
Biphenyl	92-52-4	5 U	5 U	10 U	5 U	5 U	5 U
Bromophenyl-4 Phenyl Ether	101-55-3	5 U	5 U	10 U	5 U	5 U	5 U
Butylbenzyl phthalate	85-68-7	5 U	5 U	10 U	5 U	5 U	5 U
Caprolactam	105-60-2	5 U	5 U	10 U	5 U	5 U	5 U
Chloroaniline-4	106-47-8	5 U	5 U	10 U	5 U	5 U	5 U
Chloronaphthalene-2	91-58-7	5 U	5 U	10 U	5 U	5 U	5 U
Chlorophenol-2	95-57-8	5 U	5 U	10 U	5 U	5 U	5 U
Chlorophenyl-4 phenyl ether	7005-72-3	5 U	5 U	10 U	5 U	5 U	5 U
Chrysene	218-01-9	5 U	5 U	10 U	5 U	5 U	5 U
Cresol-4,6-dinitro-ortho	534-52-1	10 U	10 U	20 U	10 U	10 U	10 U
Cresol-o	95-48-7	5 U	11	10 U	5 U	5 U	5 U
Cresol-p	106-44-5	5 U	33	10 U	5 U	5 U	5 U
Cresol-parachloro-meta	59-50-7	5 U	5 U	10 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	53-70-3	5 U	5 U	10 U	5 U	5 U	5 U
Dibenzofuran	132-64-9	5 U	5 U	10 U	5 U	5 U	5 U
Dichlorobenzidine-3,3	91-94-1	5 U	5 U	10 U	5 U	5 U	5 U
Dichlorophenol-2,4	120-83-2	5 U	5 U	10 U	5 U	5 U	5 U
Dimethylphenol-2,4	105-67-9	5 U	13	10 U	5 U	5 U	5 U
Dinitrophenol-2,4	51-28-5	10 UJ	10 UJ	20 U	10 U	10 U	10 U

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Analytical Results - Semivolatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-01S	MW-02S	MW-03S	MW-04S	MW-05S	MW-06S
Sample ID		MW-01S-3	MW-02S-3	MW-03S-3	MW-04S-3	MW-05S-3	MW-06S-3
Sample Date		06/01/2009	06/01/2009	06/11/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Dinitrotoluene-2,4	121-14-2	5 U	5 U	10 U	5 U	5 U	5 U
Dinitrotoluene-2,6	606-20-2	5 U	5 U	10 U	5 U	5 U	5 U
Ether, bis(2-chloroethyl)	111-44-4	5 U	5 U	10 U	5 U	5 U	5 U
Ether, bis-chloroisopropyl	108-60-1	5 U	5 U	10 U	5 U	5 U	5 U
Fluoranthene	206-44-0	0.59 J	5 U	10 U	5 U	5 U	5 U
Fluorene	86-73-7	5 U	5 U	10 U	5 U	5 U	5 U
Hexachlorobenzene	118-74-1	5 U	5 U	10 U	5 U	5 U	5 U
Hexachlorobutadiene	87-68-3	5 U	5 U	10 U	5 U	5 U	5 U
Hexachlorocyclopentadiene	77-47-4	5 U	5 U	10 U	5 U	5 U	5 U
Hexachloroethane	67-72-1	5 U	5 U	10 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	193-39-5	5 U	5 U	10 U	5 U	5 U	5 U
Isophorone	78-59-1	5 U	5 U	10 U	5 U	5 U	5 U
Methane, bis(2-chloroethoxy)	111-91-1	5 U	5 U	10 U	5 U	5 U	5 U
Methylnaphthalene-2	91-57-6	5 U	5 U	10 U	5 U	5 U	5 U
Naphthalene	91-20-3	5 U	1.4 J	10 U	5 U	5 U	1.3 J
Nitroaniline-2	88-74-4	10 U	10 U	20 U	10 U	10 U	10 U
Nitroaniline-3	99-09-2	10 U	10 U	20 U	10 U	10 U	10 U
Nitroaniline-4	100-01-6	10 U	10 U	20 U	10 U	10 U	10 U
Nitrobenzene	98-95-3	5 U	5 U	10 U	5 U	5 U	5 U
Nitrophenol-2	88-75-5	5 U	5 U	10 U	5 U	5 U	5 U
Nitrophenol-4	100-02-7	10 U	10 U	20 U	10 U	10 U	10 U
Nitroso-di-n-propyl-amine-N	621-64-7	5 U	5 U	10 U	5 U	5 U	5 U
Nitrosodiphenylamine-n	86-30-6	5 U	5 U	10 U	5 U	5 U	5 U
PCP (Pentachlorophenol)	87-86-5	10 UJ	10 UJ	20 U	10 U	10 U	10 U
Phenanthrene	85-01-8	5 U	5 U	10 U	5 U	5 U	2.2 J
Phenol	108-95-2	5 U	5 U	10 U	5 U	5 U	5 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	5 U	0.6 J	10 U	5 U	5 U	5 U
Phthalate, diethyl	84-66-2	5 U	5 U	10 U	5 U	5 U	5 U
Phthalate, dimethyl	131-11-3	5 U	5 U	10 U	5 U	5 U	5 U
Phthalate, di-n-butyl	84-74-2	5 U	5 U	10 U	5 U	5 U	5 U

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Analytical Results - Semivolatile Organic Compounds
Groundwater
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Station ID		MW-01S	MW-02S	MW-03S	MW-04S	MW-05S	MW-06S
Sample ID		MW-01S-3	MW-02S-3	MW-03S-3	MW-04S-3	MW-05S-3	MW-06S-3
Sample Date		06/01/2009	06/01/2009	06/11/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Phthalate, di-n-octyl	117-84-0	5 U	5 U	10 U	5 U	5 U	5 U
Pyrene	129-00-0	0.56 J	5 U	10 U	5 U	5 U	5 U
Tetrachlorobenzene-1,2,4,5	95-94-3	5 U	5 U	10 U	5 U	5 U	5 U
Trichlorophenol-2,4,5	95-95-4	5 U	5 U	10 U	5 U	5 U	5 U
Trichlorophenol-2,4,6	88-06-2	5 U	5 U	10 U	5 U	5 U	5 U

Analytical Results - Semivolatile Organic Compounds
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Station ID		MW-07S	MW-07S	MW-09S	MW-10D	MW-10S	MW-11D
Sample ID		D-3-05-29-09-3	MW-07S-3	MW-09S-3	MW-10D-3	MW-10S-3	MW-11D-3
Sample Date		05/29/2009	05/29/2009	05/29/2009	06/03/2009	06/03/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Acenaphthene	83-32-9	5 U	5 U	5 U	25	5 U	10
Acenaphthylene	208-96-8	5 U	5 U	5 U	5 U	5 U	10 U
Acetophenone	98-86-2	5 U	5 U	5 U	5 U	5 U	10 U
Anthracene	120-12-7	5 U	5 U	5 U	5 U	5 U	10 U
Atrazine	1912-24-9	5 U	5 U	5 U	5 U	5 U	10 U
Benzaldehyde	100-52-7	5 U	5 U	5 U	5 UJ	5 UJ	10 UJ
Benzo(a)anthracene	56-55-3	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Benzo(a)pyrene	50-32-8	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Benzo(b)fluoranthene	205-99-2	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Benzo(g,h,I)perylene	191-24-2	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Benzo(k)fluoranthene	207-08-9	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Biphenyl	92-52-4	5 U	5 U	5 U	5 U	5 U	10 U
Bromophenyl-4 Phenyl Ether	101-55-3	5 U	5 U	5 U	5 U	5 U	10 U
Butylbenzyl phthalate	85-68-7	5 U	5 U	5 U	5 U	5 U	10 U
Caprolactam	105-60-2	5 U	5 U	5 U	5 U	5 U	10 U
Chloroaniline-4	106-47-8	5 U	5 U	5 U	5 U	5 U	10 U
Chloronaphthalene-2	91-58-7	5 U	5 U	5 U	5 U	5 U	10 U
Chlorophenol-2	95-57-8	5 U	5 U	5 U	5 U	5 U	10 U
Chlorophenyl-4 phenyl ether	7005-72-3	5 U	5 U	5 U	5 U	5 U	10 U
Chrysene	218-01-9	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Cresol-4,6-dinitro-ortho	534-52-1	10 U	10 U	10 U	10 U	10 U	20 U
Cresol-o	95-48-7	5 U	5 U	5 U	5 U	5 U	10 U
Cresol-p	106-44-5	5 U	5 U	1.4 J	5 U	5 U	10 U
Cresol-parachloro-meta	59-50-7	5 U	5 U	5 U	5 U	5 U	10 U
Dibenzo(a,h)anthracene	53-70-3	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Dibenzofuran	132-64-9	5 U	5 U	5 U	5 U	5 U	5.5 J
Dichlorobenzidine-3,3	91-94-1	5 U	5 U	5 U	5 U	5 U	10 U
Dichlorophenol-2,4	120-83-2	5 U	5 U	5 U	5 U	5 U	10 U
Dimethylphenol-2,4	105-67-9	5 U	5 U	5 U	5 U	5 U	3.5 J
Dinitrophenol-2,4	51-28-5	10 U	10 U	10 U	10 UJ	10 UJ	20 UJ

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Station ID		MW-07S	MW-07S	MW-09S	MW-10D	MW-10S	MW-11D
Sample ID		D-3-05-29-09-3	MW-07S-3	MW-09S-3	MW-10D-3	MW-10S-3	MW-11D-3
Sample Date		05/29/2009	05/29/2009	05/29/2009	06/03/2009	06/03/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Dinitrotoluene-2,4	121-14-2	5 U	5 U	5 U	5 U	5 U	10 U
Dinitrotoluene-2,6	606-20-2	5 U	5 U	5 U	5 U	5 U	10 U
Ether, bis(2-chloroethyl)	111-44-4	5 U	5 U	5 U	5 U	5 U	10 U
Ether, bis-chloroisopropyl	108-60-1	5 U	5 U	5 U	5 U	5 U	10 U
Fluoranthene	206-44-0	5 U	5 U	5 U	5 UJ	5 U	1.7 J
Fluorene	86-73-7	5 U	5 U	5 U	4.2 J	5 U	6.3 J
Hexachlorobenzene	118-74-1	5 U	5 U	5 U	5 U	5 U	10 U
Hexachlorobutadiene	87-68-3	5 U	5 U	5 U	5 U	5 U	10 U
Hexachlorocyclopentadiene	77-47-4	5 U	5 U	5 U	5 U	5 U	10 U
Hexachloroethane	67-72-1	5 U	5 U	5 U	5 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	193-39-5	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Isophorone	78-59-1	5 U	5 U	5 U	5 U	5 U	10 U
Methane, bis(2-chloroethoxy)	111-91-1	5 U	5 U	5 U	5 U	5 U	10 U
Methylnaphthalene-2	91-57-6	5 U	5 U	5 U	5 U	5 U	1.3 J
Naphthalene	91-20-3	1.8 J	1.7 J	5 U	5 U	5 U	10 U
Nitroaniline-2	88-74-4	10 U	10 U	10 U	10 U	10 U	20 U
Nitroaniline-3	99-09-2	10 U	10 U	10 U	10 U	10 U	20 U
Nitroaniline-4	100-01-6	10 U	10 U	10 U	10 U	10 U	20 U
Nitrobenzene	98-95-3	5 U	5 U	5 U	5 U	5 U	10 U
Nitrophenol-2	88-75-5	5 U	5 U	5 U	5 U	5 U	10 U
Nitrophenol-4	100-02-7	10 U	10 U	10 U	10 U	10 U	20 U
Nitroso-di-n-propyl-amine-N	621-64-7	5 U	5 U	5 U	5 U	5 U	10 U
Nitrosodiphenylamine-n	86-30-6	5 U	5 U	5 U	5 U	5 U	10 U
PCP (Pentachlorophenol)	87-86-5	10 U	10 U	10 U	10 UJ	10 UJ	20 UJ
Phenanthrene	85-01-8	5 U	5 U	5 U	5 U	5 U	10 U
Phenol	108-95-2	5 U	5 U	5 U	5 UJ	5 UJ	10 UJ
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	5 U	5 U	5 U	5 U	5 U	10 U
Phthalate, diethyl	84-66-2	5 U	5 U	5 U	5 U	5 U	10 U
Phthalate, dimethyl	131-11-3	5 U	5 U	5 U	5 U	5 U	10 U
Phthalate, di-n-butyl	84-74-2	5 U	5 U	5 U	5 U	5 U	10 U

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Station ID		MW-07S	MW-07S	MW-09S	MW-10D	MW-10S	MW-11D
Sample ID		D-3-05-29-09-3	MW-07S-3	MW-09S-3	MW-10D-3	MW-10S-3	MW-11D-3
Sample Date		05/29/2009	05/29/2009	05/29/2009	06/03/2009	06/03/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Phthalate, di-n-octyl	117-84-0	5 U	5 U	5 U	5 U	5 U	10 U
Pyrene	129-00-0	5 U	5 U	5 U	5 UJ	5 U	10 UJ
Tetrachlorobenzene-1,2,4,5	95-94-3	5 U	5 U	5 U	5 U	5 U	10 U
Trichlorophenol-2,4,5	95-95-4	5 U	5 U	5 U	5 U	5 U	10 U
Trichlorophenol-2,4,6	88-06-2	5 U	5 U	5 U	5 U	5 U	10 U

Analytical Results - Semivolatile Organic Compounds
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Station ID		MW-11S	MW-12S	MW-13D	MW-13S	MW-14S	MW-15D
Sample ID		MW-11S-3	MW-12S-3	MW-13D-3	MW-13S-3	MW-14S-3	MW-15D-3
Sample Date		06/03/2009	06/02/2009	06/02/2009	06/11/2009	06/02/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Acenaphthene	83-32-9	5 U	25 U	10 U	5 U	5 U	10 U
Acenaphthylene	208-96-8	5 U	25 U	10 U	5 U	5 U	10 U
Acetophenone	98-86-2	5 U	25 U	10 U	5 U	5 U	10 U
Anthracene	120-12-7	5 U	25 U	10 U	5 U	5 U	10 U
Atrazine	1912-24-9	5 U	25 U	10 U	5 U	5 U	10 U
Benzaldehyde	100-52-7	5 UJ	25 U	10 UJ	5 U	5 U	10 UJ
Benzo(a)anthracene	56-55-3	5 U	25 UJ	10 UJ	5 U	5 U	10 U
Benzo(a)pyrene	50-32-8	5 U	25 U	10 UJ	5 U	5 U	10 UJ
Benzo(b)fluoranthene	205-99-2	5 U	25 U	10 UJ	5 U	5 U	10 UJ
Benzo(g,h,i)perylene	191-24-2	5 U	25 U	10 UJ	5 U	5 U	10 UJ
Benzo(k)fluoranthene	207-08-9	5 U	25 U	10 UJ	5 U	5 U	10 UJ
Biphenyl	92-52-4	5 U	25 U	10 U	5 U	5 U	10 U
Bromophenyl-4 Phenyl Ether	101-55-3	5 U	25 U	10 U	5 U	5 U	10 U
Butylbenzyl phthalate	85-68-7	5 U	25 U	10 U	5 U	5 U	10 U
Caprolactam	105-60-2	5 U	25 U	10 U	5 U	5 U	10 U
Chloroaniline-4	106-47-8	5 U	25 U	10 U	5 U	5 U	10 U
Chloronaphthalene-2	91-58-7	5 U	25 U	10 U	5 U	5 U	10 U
Chlorophenol-2	95-57-8	5 U	6.2 J	10 U	5 U	5 U	10 U
Chlorophenyl-4 phenyl ether	7005-72-3	5 U	25 U	10 U	5 U	5 U	10 U
Chrysene	218-01-9	5 U	25 UJ	10 UJ	5 U	5 U	10 U
Cresol-4,6-dinitro-ortho	534-52-1	10 U	50 U	20 U	10 U	10 U	20 U
Cresol-o	95-48-7	5 U	340	10 U	5 U	5 U	10 U
Cresol-p	106-44-5	5 U	1600	10 U	5 U	5 U	10 U
Cresol-parachloro-meta	59-50-7	5 U	25 U	10 U	5 U	5 U	10 U
Dibenzo(a,h)anthracene	53-70-3	5 U	25 U	10 UJ	5 U	5 U	10 UJ
Dibenzofuran	132-64-9	5 U	25 U	10 U	5 U	5 U	10 U
Dichlorobenzidine-3,3	91-94-1	5 U	25 U	10 U	5 U	5 U	10 U
Dichlorophenol-2,4	120-83-2	5 U	25 U	10 U	5 U	5 U	10 U
Dimethylphenol-2,4	105-67-9	5 U	1100	10 U	2.2 J	5 U	10 U
Dinitrophenol-2,4	51-28-5	10 UJ	50 UJ	20 UJ	10 U	10 UJ	20 UJ

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Analytical Results - Semivolatile Organic Compounds
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Station ID		MW-11S	MW-12S	MW-13D	MW-13S	MW-14S	MW-15D
Sample ID		MW-11S-3	MW-12S-3	MW-13D-3	MW-13S-3	MW-14S-3	MW-15D-3
Sample Date		06/03/2009	06/02/2009	06/02/2009	06/11/2009	06/02/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Dinitrotoluene-2,4	121-14-2	5 U	25 U	10 U	5 U	5 U	10 U
Dinitrotoluene-2,6	606-20-2	5 U	25 U	10 U	5 U	5 U	10 U
Ether, bis(2-chloroethyl)	111-44-4	5 U	25 UJ	10 U	5 U	5 U	10 U
Ether, bis-chloroisopropyl	108-60-1	5 U	25 UJ	10 U	5 U	5 U	10 U
Fluoranthene	206-44-0	5 U	25 UJ	10 UJ	5 U	5 U	10 U
Fluorene	86-73-7	5 U	25 U	10 U	5 U	5 U	10 U
Hexachlorobenzene	118-74-1	5 U	25 U	10 U	5 U	5 U	10 U
Hexachlorobutadiene	87-68-3	5 U	25 U	10 U	5 U	5 U	10 U
Hexachlorocyclopentadiene	77-47-4	5 U	25 U	10 U	5 U	5 U	10 U
Hexachloroethane	67-72-1	5 U	25 U	10 U	5 U	5 U	10 U
Indeno(1,2,3-cd)pyrene	193-39-5	5 U	25 U	10 UJ	5 U	5 U	10 UJ
Isophorone	78-59-1	5 U	25 U	10 U	5 U	5 U	10 U
Methane, bis(2-chloroethoxy)	111-91-1	5 U	25 UJ	10 U	5 U	5 U	10 U
Methylnaphthalene-2	91-57-6	5 U	6.2 J	10 U	6.3	5 U	10 U
Naphthalene	91-20-3	5 U	21 J	10 U	20	5 U	10 U
Nitroaniline-2	88-74-4	10 U	50 U	20 U	10 U	10 U	20 U
Nitroaniline-3	99-09-2	10 U	50 U	20 U	10 U	10 U	20 U
Nitroaniline-4	100-01-6	10 U	50 U	20 U	10 U	10 U	20 U
Nitrobenzene	98-95-3	5 U	25 U	10 U	5 U	5 U	10 U
Nitrophenol-2	88-75-5	5 U	25 U	10 U	5 U	5 U	10 U
Nitrophenol-4	100-02-7	10 U	50 U	20 U	10 U	10 U	20 U
Nitroso-di-n-propyl-amine-N	621-64-7	5 U	25 U	10 U	5 U	5 U	10 U
Nitrosodiphenylamine-n	86-30-6	5 U	25 U	10 U	5 U	5 U	10 U
PCP (Pentachlorophenol)	87-86-5	10 UJ	50 UJ	20 UJ	10 U	10 UJ	20 UJ
Phenanthrene	85-01-8	5 U	25 U	10 U	5 U	5 U	10 U
Phenol	108-95-2	5 UJ	1400	10 UJ	5 U	5 U	10 UJ
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	5 U	25 U	10 U	5 U	5 U	10 U
Phthalate, diethyl	84-66-2	5 U	25 U	10 U	5 U	5 U	10 U
Phthalate, dimethyl	131-11-3	5 U	25 U	10 U	5 U	5 U	10 U
Phthalate, di-n-butyl	84-74-2	5 U	25 U	10 U	5 U	5 U	10 U

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Station ID		MW-11S	MW-12S	MW-13D	MW-13S	MW-14S	MW-15D
Sample ID		MW-11S-3	MW-12S-3	MW-13D-3	MW-13S-3	MW-14S-3	MW-15D-3
Sample Date		06/03/2009	06/02/2009	06/02/2009	06/11/2009	06/02/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Phthalate, di-n-octyl	117-84-0	5 U	25 U	10 U	5 U	5 U	10 U
Pyrene	129-00-0	5 U	25 UJ	10 UJ	5 U	5 U	10 U
Tetrachlorobenzene-1,2,4,5	95-94-3	5 U	25 U	10 U	5 U	5 U	10 U
Trichlorophenol-2,4,5	95-95-4	5 U	25 U	10 U	5 U	5 U	10 U
Trichlorophenol-2,4,6	88-06-2	5 U	25 U	10 U	5 U	5 U	10 U

Analytical Results - Semivolatile Organic Compounds
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Station ID		MW-15S	MW-17S	MW-18S	MW-19S	MW-20S	MW-21S
Sample ID		MW-15S-3	MW-17S-3	MW-18S-3	MW-19S-3DL	MW-20S-3DL	MW-21S-3
Sample Date		06/03/2009	06/04/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Acenaphthene	83-32-9	2.2 J	1.4 J	14	5 U	4.2 J	5 R
Acenaphthylene	208-96-8	5 U	5 U	0.65 J	5 U	5 U	5 R
Acetophenone	98-86-2	5 U	5 U	5 U	5.9 J	5 R	5 R
Anthracene	120-12-7	5 U	5 U	2.7 J	5 R	5 R	5 R
Atrazine	1912-24-9	5 U	5 U	5 U	5 R	5 R	5 R
Benzaldehyde	100-52-7	5 UJ	5 U	5 U	5 R	5 U	5 R
Benzo(a)anthracene	56-55-3	5 U	5 U	5 U	5 UJ	5 U	5 R
Benzo(a)pyrene	50-32-8	5 U	5 UJ	5 R	5 R	5 R	5 R
Benzo(b)fluoranthene	205-99-2	5 U	5 UJ	5 R	5 R	5 R	5 R
Benzo(g,h,I)perylene	191-24-2	5 U	5 UJ	5 R	5 R	5 R	5 R
Benzo(k)fluoranthene	207-08-9	5 U	5 UJ	5 R	5 R	5 R	5 R
Biphenyl	92-52-4	5 U	5 U	5 U	5 U	5 UJ	5 R
Bromophenyl-4 Phenyl Ether	101-55-3	5 U	5 U	5 U	5 R	5 R	5 R
Butylbenzyl phthalate	85-68-7	5 U	5 U	5 U	5 U	5 UJ	5 R
Caprolactam	105-60-2	5 U	1.4 J	5 U	5 R	5 UJ	5 R
Chloroaniline-4	106-47-8	5 U	5 U	5 U	5 R	5 U	5 R
Chloronaphthalene-2	91-58-7	5 U	5 U	5 U	5 U	5 U	5 R
Chlorophenol-2	95-57-8	5 U	5 U	5 U	5 R	5 R	5 R
Chlorophenyl-4 phenyl ether	7005-72-3	5 U	5 U	5 U	5 U	5 U	5 R
Chrysene	218-01-9	5 U	5 U	5 U	5 UJ	5 U	5 R
Cresol-4,6-dinitro-ortho	534-52-1	10 U	10 U	10 U	10 R	10 R	10 R
Cresol-o	95-48-7	5 U	5 U	5 U	5 R	5 U	560 J
Cresol-p	106-44-5	5 U	5 U	0.81 J	9.8 J	5 R	1300
Cresol-parachloro-meta	59-50-7	5 U	5 U	5 U	5 R	5 U	5 R
Dibenzo(a,h)anthracene	53-70-3	5 U	5 UJ	5 R	5 R	5 R	5 R
Dibenzofuran	132-64-9	5 U	5 U	1 J	5 U	5 U	5 R
Dichlorobenzidine-3,3	91-94-1	5 U	5 U	5 U	5 U	5 U	5 R
Dichlorophenol-2,4	120-83-2	5 U	5 U	5 U	5 R	5 U	5 R
Dimethylphenol-2,4	105-67-9	5 U	5 U	5 U	48 J	5 U	310 J
Dinitrophenol-2,4	51-28-5	10 UJ	10 U	10 U	10 U	10 U	10 R

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Station ID		MW-15S	MW-17S	MW-18S	MW-19S	MW-20S	MW-21S
Sample ID		MW-15S-3	MW-17S-3	MW-18S-3	MW-19S-3DL	MW-20S-3DL	MW-21S-3
Sample Date		06/03/2009	06/04/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Dinitrotoluene-2,4	121-14-2	5 U	5 U	5 U	5 U	5 U	5 R
Dinitrotoluene-2,6	606-20-2	5 U	5 U	5 U	5 U	5 U	5 R
Ether, bis(2-chloroethyl)	111-44-4	5 U	5 U	5 U	5 R	5 U	5 R
Ether, bis-chloroisopropyl	108-60-1	5 U	5 U	5 U	5 R	5 R	2.8 J
Fluoranthene	206-44-0	0.88 J	5 U	2.7 J	5 R	5 R	5 R
Fluorene	86-73-7	5 U	5 U	5	5 U	5 U	5 R
Hexachlorobenzene	118-74-1	5 U	5 U	5 U	5 R	5 R	5 R
Hexachlorobutadiene	87-68-3	5 U	5 U	5 U	5 R	5 U	5 R
Hexachlorocyclopentadiene	77-47-4	5 U	5 U	5 U	5 U	5 U	5 R
Hexachloroethane	67-72-1	5 U	5 U	5 U	5 R	5 R	5 R
Indeno(1,2,3-cd)pyrene	193-39-5	5 U	5 UJ	5 R	5 R	5 R	5 R
Isophorone	78-59-1	5 U	5 U	5 U	5 R	5 U	5 R
Methane, bis(2-chloroethoxy)	111-91-1	5 U	5 U	5 U	5 R	5 U	5 R
Methylnaphthalene-2	91-57-6	5 U	5 U	7.9	3.9 J	5 U	5 R
Naphthalene	91-20-3	5 U	5 U	7.8	15 J	5 U	0.9 J
Nitroaniline-2	88-74-4	10 UJ	10 U	10 U	10 U	10 U	10 R
Nitroaniline-3	99-09-2	10 UJ	10 U	10 U	10 U	10 U	10 R
Nitroaniline-4	100-01-6	10 UJ	10 U	10 U	10 U	10 U	10 R
Nitrobenzene	98-95-3	5 U	5 U	5 U	5 R	5 U	5 R
Nitrophenol-2	88-75-5	5 U	5 U	5 U	5 R	5 R	5 R
Nitrophenol-4	100-02-7	10 UJ	10 U	10 U	10 UJ	10 UJ	10 R
Nitroso-di-n-propyl-amine-N	621-64-7	5 U	5 U	5 U	5 R	5 R	5 R
Nitrosodiphenylamine-n	86-30-6	5 U	5 U	5 U	5 R	5 R	5 R
PCP (Pentachlorophenol)	87-86-5	10 UJ	10 UJ	10 UJ	10 R	10 R	10 R
Phenanthrene	85-01-8	5 U	5 U	9.4	5 R	5 R	5 R
Phenol	108-95-2	5 UJ	5 U	5 U	5 R	5 R	6600
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	5 U	5 U	0.67 J	1.2 J	5 UJ	5 R
Phthalate, diethyl	84-66-2	5 U	5 U	5 U	5 U	5 UJ	5 R
Phthalate, dimethyl	131-11-3	5 U	5 U	5 U	5 U	5 UJ	5 R
Phthalate, di-n-butyl	84-74-2	5 U	5 U	5 U	1.4 J	1.5 J	5 R

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Analytical Results - Semivolatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-15S	MW-17S	MW-18S	MW-19S	MW-20S	MW-21S
Sample ID		MW-15S-3	MW-17S-3	MW-18S-3	MW-19S-3DL	MW-20S-3DL	MW-21S-3
Sample Date		06/03/2009	06/04/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/l)							
Phthalate, di-n-octyl	117-84-0	5 U	5 U	5 R	5 R	5 R	5 R
Pyrene	129-00-0	0.92 J	5 U	2.9 J	5 UJ	5 U	5 R
Tetrachlorobenzene-1,2,4,5	95-94-3	5 U	5 U	5 U	5 U	5 U	5 R
Trichlorophenol-2,4,5	95-95-4	5 U	5 U	5 U	5 U	5 U	5 R
Trichlorophenol-2,4,6	88-06-2	5 U	5 U	5 U	5 U	5 U	5 R

Analytical Results - Semivolatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-23S	MW-24S	MW-25S	MW-26S	MW-26S
Sample ID		MW-23S-3	MW-24S-3	MW-25S-3	D-3-06-10-09-3	MW-26S-3
Sample Date		06/11/2009	06/09/2009	06/10/2009	06/10/2009	06/10/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**					
Semivolatile Organic Compounds (ug/l)						
Acenaphthene	83-32-9	12	3.2 J	6.2	4 J	4.5 J
Acenaphthylene	208-96-8	5 U	5 U	5 U	5 U	5 U
Acetophenone	98-86-2	5 U	5 U	5 U	5 U	5 U
Anthracene	120-12-7	2.4 J	0.75 J	1.2 J	0.59 J	5 U
Atrazine	1912-24-9	5 U	5 UJ	5 U	5 U	5 U
Benzaldehyde	100-52-7	5 U	5 U	5 U	5 U	5 U
Benzo(a)anthracene	56-55-3	0.95 J	5 UJ	5 UJ	5 U	5 U
Benzo(a)pyrene	50-32-8	0.71 J	5 UJ	5 UJ	5 U	5 U
Benzo(b)fluoranthene	205-99-2	0.85 J	5 UJ	5 UJ	5 U	5 U
Benzo(g,h,I)perylene	191-24-2	0.54 J	5 UJ	5 UJ	5 U	5 U
Benzo(k)fluoranthene	207-08-9	0.84 J	5 UJ	5 UJ	5 U	5 U
Biphenyl	92-52-4	5 U	5 U	5 U	5 U	5 U
Bromophenyl-4 Phenyl Ether	101-55-3	5 U	5 U	5 U	5 U	5 U
Butylbenzyl phthalate	85-68-7	5 U	5 U	5 U	5 U	5 U
Caprolactam	105-60-2	2 J	5 U	5 U	5 U	5 U
Chloroaniline-4	106-47-8	5 U	5 U	5 U	5 U	5 U
Chloronaphthalene-2	91-58-7	5 U	5 U	5 U	5 U	5 U
Chlorophenol-2	95-57-8	5 U	5 U	5 U	5 U	5 U
Chlorophenyl-4 phenyl ether	7005-72-3	5 U	5 U	5 U	5 U	5 U
Chrysene	218-01-9	0.86 J	5 UJ	5 UJ	5 U	5 U
Cresol-4,6-dinitro-ortho	534-52-1	10 U	10 U	10 U	10 U	10 U
Cresol-o	95-48-7	5 U	5 U	5 U	5 U	5 U
Cresol-p	106-44-5	5 U	5 U	0.97 J	5 U	5 U
Cresol-parachloro-meta	59-50-7	5 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	53-70-3	5 U	5 UJ	5 UJ	5 U	5 U
Dibenzofuran	132-64-9	5 U	5 U	5 U	5 U	5 U
Dichlorobenzidine-3,3	91-94-1	5 U	5 U	5 U	5 U	5 U
Dichlorophenol-2,4	120-83-2	5 U	5 U	5 U	5 U	5 U
Dimethylphenol-2,4	105-67-9	5 U	5 U	5 U	5 U	5 U
Dinitrophenol-2,4	51-28-5	10 U	10 U	10 U	10 U	10 U

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Analytical Results - Semivolatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-23S	MW-24S	MW-25S	MW-26S	MW-26S
Sample ID		MW-23S-3	MW-24S-3	MW-25S-3	D-3-06-10-09-3	MW-26S-3
Sample Date		06/11/2009	06/09/2009	06/10/2009	06/10/2009	06/10/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**					
Semivolatile Organic Compounds (ug/l)						
Dinitrotoluene-2,4	121-14-2	5 U	5 U	5 U	5 U	5 U
Dinitrotoluene-2,6	606-20-2	5 U	5 U	5 U	5 U	5 U
Ether, bis(2-chloroethyl)	111-44-4	5 U	5 U	5 U	5 U	5 U
Ether, bis-chloroisopropyl	108-60-1	5 U	5 U	5 U	5 U	5 U
Fluoranthene	206-44-0	2.4 J	1.2 J	1.4 J	0.79 J	0.73 J
Fluorene	86-73-7	4.8 J	5 U	2.3 J	1 J	0.99 J
Hexachlorobenzene	118-74-1	5 U	5 UJ	5 U	5 U	5 U
Hexachlorobutadiene	87-68-3	5 U	5 U	5 U	5 U	5 U
Hexachlorocyclopentadiene	77-47-4	5 U	5 U	5 U	5 U	5 U
Hexachloroethane	67-72-1	5 U	5 U	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	193-39-5	5 U	5 UJ	5 UJ	5 U	5 U
Isophorone	78-59-1	5 U	5 U	5 U	5 U	5 U
Methane, bis(2-chloroethoxy)	111-91-1	5 U	5 U	5 U	5 U	5 U
Methylnaphthalene-2	91-57-6	0.58 J	5 U	6	0.87 J	0.75 J
Naphthalene	91-20-3	0.77 J	5 U	4 J	0.5 J	5 U
Nitroaniline-2	88-74-4	10 U	10 U	10 U	10 U	10 U
Nitroaniline-3	99-09-2	10 U	10 U	10 U	10 U	10 U
Nitroaniline-4	100-01-6	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	98-95-3	5 U	5 U	5 U	5 U	5 U
Nitrophenol-2	88-75-5	5 U	5 U	5 U	5 U	5 U
Nitrophenol-4	100-02-7	10 U	10 U	10 U	10 U	10 U
Nitroso-di-n-propyl-amine-N	621-64-7	5 U	5 U	5 U	5 U	5 U
Nitrosodiphenylamine-n	86-30-6	5 U	5 U	5 U	5 U	5 U
PCP (Pentachlorophenol)	87-86-5	10 U	10 U	10 U	10 U	10 U
Phenanthrene	85-01-8	11	1.3 J	4.7 J	2.5 J	1.9 J
Phenol	108-95-2	5 U	2.8 J	5 U	5 U	5 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	5 U	5 U	0.91 J	5 U	5 U
Phthalate, diethyl	84-66-2	5 U	5 U	5 U	5 U	5 U
Phthalate, dimethyl	131-11-3	5 U	5 U	5 U	5 U	5 U
Phthalate, di-n-butyl	84-74-2	5 U	5 U	5 U	5 U	5 U

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Analytical Results - Semivolatile Organic Compounds
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-23S	MW-24S	MW-25S	MW-26S	MW-26S
Sample ID		MW-23S-3	MW-24S-3	MW-25S-3	D-3-06-10-09-3	MW-26S-3
Sample Date		06/11/2009	06/09/2009	06/10/2009	06/10/2009	06/10/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**					
Semivolatile Organic Compounds (ug/l)						
Phthalate, di-n-octyl	117-84-0	5 U	5 U	5 U	5 U	5 U
Pyrene	129-00-0	2.5 J	1.1 J	1.6 J	0.8 J	0.79 J
Tetrachlorobenzene-1,2,4,5	95-94-3	5 U	5 U	5 U	5 U	5 U
Trichlorophenol-2,4,5	95-95-4	5 U	5 U	5 U	5 U	5 U
Trichlorophenol-2,4,6	88-06-2	5 U	5 U	5 U	5 U	5 U

Table Analytical Results Pesticides PCBs Groundwater

Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-01S	MW-02S	MW-03S	MW-04S	MW-05S	MW-06S
Sample ID		MW-01S-3	MW-02S-3	MW-03S-3	MW-04S-3	MW-05S-3	MW-06S-3
Sample Date		06/01/2009	06/01/2009	06/11/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Pesticides (ug/l)							
Aldrin	309-00-2	0.05 UJ	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, alpha	319-84-6	0.05 UJ	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, beta	319-85-7	0.05 UJ	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, delta	319-86-8	0.05 UJ	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, gamma (Lindane)	58-89-9	0.05 UJ	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Chlordane - alpha	5103-71-9	0.05 UJ	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Chlordane - beta	5103-74-2	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DDD-4,4	72-54-8	0.1 UJ	0.1 R	0.005 J	0.1 UJ	0.01 J	0.1 UJ
DDE-4,4	72-55-9	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
DDT-4,4	50-29-3	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Dieldrin	60-57-1	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan I (alpha)	959-98-8	0.05 UJ	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Endosulfan II (beta)	33213-65-9	0.04 J	0.1 R	0.1 UJ	0.009 J	0.1 UJ	0.1 UJ
Endosulfan Sulfate	1031-07-8	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin	72-20-8	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin Aldehyde	7421-93-4	0.1 UJ	0.03 J	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin ketone	53494-70-5	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Heptachlor	76-44-8	0.05 UJ	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor Epoxide	1024-57-3	0.02 J	0.05 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Methoxychlor	72-43-5	0.0061 J	0.5 R	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Toxaphene	8001-35-2	5 UJ	5 R	5 UJ	5 UJ	5 UJ	5 UJ
Aroclors (ug/l)							
Pcb-araclor 1016	12674-11-2	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ
Pcb-araclor 1221	11104-28-2	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ
Pcb-araclor 1232	11141-16-5	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ
Pcb-araclor 1242	53469-21-9	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ
Pcb-araclor 1248	12672-29-6	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ
Pcb-araclor 1254	11097-69-1	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ
Pcb-araclor 1260	11096-82-5	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ

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Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-01S	MW-02S	MW-03S	MW-04S	MW-05S	MW-06S
Sample ID		MW-01S-3	MW-02S-3	MW-03S-3	MW-04S-3	MW-05S-3	MW-06S-3
Sample Date		06/01/2009	06/01/2009	06/11/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Aroclors (ug/l)							
Pcb-araclor 1262	37324-23-5	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ
Pcb-araclor 1268	11100-14-4	1 U	1 UJ	1 U	1 UJ	1 U	1 UJ

Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-07S	MW-07S	MW-09S	MW-10D	MW-10S	MW-11D
Sample ID		D-3-05-29-09-3	MW-07S-3	MW-09S-3	MW-10D-3	MW-10S-3	MW-11D-3
Sample Date		05/29/2009	05/29/2009	05/29/2009	06/03/2009	06/03/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Pesticides (ug/l)							
Aldrin	309-00-2	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
BHC, alpha	319-84-6	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
BHC, beta	319-85-7	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
BHC, delta	319-86-8	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
BHC, gamma (Lindane)	58-89-9	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Chlordane - alpha	5103-71-9	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Chlordane - beta	5103-74-2	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
DDD-4,4	72-54-8	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
DDE-4,4	72-55-9	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
DDT-4,4	50-29-3	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
Dieldrin	60-57-1	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
Endosulfan I (alpha)	959-98-8	0.05 UJ	0.0055 J	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Endosulfan II (beta)	33213-65-9	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.0055 J	0.1 UJ
Endosulfan Sulfate	1031-07-8	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
Endrin	72-20-8	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
Endrin Aldehyde	7421-93-4	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
Endrin ketone	53494-70-5	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
Heptachlor	76-44-8	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Heptachlor Epoxide	1024-57-3	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ
Methoxychlor	72-43-5	0.5 UJ	0.5 UJ	0.0063 J	0.5 UJ	0.5 U	0.5 UJ
Toxaphene	8001-35-2	5 UJ	5 UJ	5 UJ	5 UJ	5 U	5 UJ
Aroclors (ug/l)							
Pcb-araclor 1016	12674-11-2	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ
Pcb-araclor 1221	11104-28-2	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ
Pcb-araclor 1232	11141-16-5	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ
Pcb-araclor 1242	53469-21-9	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ
Pcb-araclor 1248	12672-29-6	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ
Pcb-araclor 1254	11097-69-1	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ
Pcb-araclor 1260	11096-82-5	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ

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Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-07S	MW-07S	MW-09S	MW-10D	MW-10S	MW-11D
Sample ID		D-3-05-29-09-3	MW-07S-3	MW-09S-3	MW-10D-3	MW-10S-3	MW-11D-3
Sample Date		05/29/2009	05/29/2009	05/29/2009	06/03/2009	06/03/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Aroclors (ug/l)							
Pcb-araclor 1262	37324-23-5	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ
Pcb-araclor 1268	11100-14-4	1 U	1 UJ	1 UJ	1 UJ	1 U	1 UJ

Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-11S	MW-12S	MW-13D	MW-13S	MW-14S	MW-15D
Sample ID		MW-11S-3	MW-12S-3	MW-13D-3	MW-13S-3	MW-14S-3	MW-15D-3
Sample Date		06/03/2009	06/02/2009	06/02/2009	06/11/2009	06/02/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Pesticides (ug/l)							
Aldrin	309-00-2	0.05 UJ	0.13 NJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, alpha	319-84-6	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, beta	319-85-7	0.05 UJ	0.37 R	0.05 UJ	0.05 UJ	0.02 J	0.05 UJ
BHC, delta	319-86-8	0.05 UJ	0.05 R	0.0074 J	0.05 UJ	0.05 UJ	0.05 UJ
BHC, gamma (Lindane)	58-89-9	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Chlordane - alpha	5103-71-9	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Chlordane - beta	5103-74-2	0.05 UJ	0.5 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DDD-4,4	72-54-8	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
DDE-4,4	72-55-9	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
DDT-4,4	50-29-3	0.1 UJ	0.06 J	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Dieldrin	60-57-1	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan I (alpha)	959-98-8	0.05 UJ	0.05 UJ	0.05 UJ	0.02 J	0.05 UJ	0.05 UJ
Endosulfan II (beta)	33213-65-9	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.0078 J	0.01 J
Endosulfan Sulfate	1031-07-8	0.1 UJ	0.1 UJ	0.1 UJ	0.0053 J	0.1 UJ	0.1 UJ
Endrin	72-20-8	0.1 UJ	0.08 J	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin Aldehyde	7421-93-4	0.1 UJ	0.05 J	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin ketone	53494-70-5	0.1 UJ	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Heptachlor	76-44-8	0.05 UJ	0.08 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor Epoxide	1024-57-3	0.05 UJ	0.07 J	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Methoxychlor	72-43-5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Toxaphene	8001-35-2	5 UJ	5 R	5 UJ	5 UJ	5 UJ	5 UJ
Aroclors (ug/l)							
Pcb-araclor 1016	12674-11-2	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ
Pcb-araclor 1221	11104-28-2	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ
Pcb-araclor 1232	11141-16-5	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ
Pcb-araclor 1242	53469-21-9	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ
Pcb-araclor 1248	12672-29-6	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ
Pcb-araclor 1254	11097-69-1	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ
Pcb-araclor 1260	11096-82-5	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ

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Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-11S	MW-12S	MW-13D	MW-13S	MW-14S	MW-15D
Sample ID		MW-11S-3	MW-12S-3	MW-13D-3	MW-13S-3	MW-14S-3	MW-15D-3
Sample Date		06/03/2009	06/02/2009	06/02/2009	06/11/2009	06/02/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Aroclors (ug/l)							
Pcb-araclor 1262	37324-23-5	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ
Pcb-araclor 1268	11100-14-4	1 U	1 UJ	1 UJ	1 U	1 U	1 UJ

Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-15S	MW-17S	MW-18S	MW-19S	MW-20S	MW-20S
Sample ID		MW-15S-3	MW-17S-3	MW-18S-3	MW-19S-3	D-3-06-05-09-2	MW-20S-3
Sample Date		06/03/2009	06/04/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Pesticides (ug/l)							
Aldrin	309-00-2	0.05 U	0.12 J	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, alpha	319-84-6	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, beta	319-85-7	0.05 U	0.45 J	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, delta	319-86-8	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
BHC, gamma (Lindane)	58-89-9	0.05 U	0.21 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Chlordane - alpha	5103-71-9	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Chlordane - beta	5103-74-2	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
DDD-4,4	72-54-8	0.1 U	0.1 UJ	0.0053 J	0.1 UJ	0.1 UJ	0.1 UJ
DDE-4,4	72-55-9	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
DDT-4,4	50-29-3	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Dieldrin	60-57-1	0.1 U	0.01 J	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan I (alpha)	959-98-8	0.05 U	0.01 J	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Endosulfan II (beta)	33213-65-9	0.01 J	0.0054 J	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endosulfan Sulfate	1031-07-8	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin	72-20-8	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Endrin Aldehyde	7421-93-4	0.1 U	0.1 UJ	0.1 UJ	0.01 J	0.1 UJ	0.1 UJ
Endrin ketone	53494-70-5	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
Heptachlor	76-44-8	0.05 U	0.13 R	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Heptachlor Epoxide	1024-57-3	0.05 U	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ	0.05 UJ
Methoxychlor	72-43-5	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Toxaphene	8001-35-2	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Aroclors (ug/l)							
Pcb-araclor 1016	12674-11-2	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Pcb-araclor 1221	11104-28-2	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Pcb-araclor 1232	11141-16-5	1 U	26 JN	1 UJ	1 UJ	1 UJ	1 UJ
Pcb-araclor 1242	53469-21-9	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Pcb-araclor 1248	12672-29-6	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Pcb-araclor 1254	11097-69-1	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Pcb-araclor 1260	11096-82-5	1 U	1 UJ	1 UJ	0.21 J	1 UJ	1 UJ

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Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-15S	MW-17S	MW-18S	MW-19S	MW-20S	MW-20S
Sample ID		MW-15S-3	MW-17S-3	MW-18S-3	MW-19S-3	D-3-06-05-09-2	MW-20S-3
Sample Date		06/03/2009	06/04/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Aroclors (ug/l)							
Pcb-araclor 1262	37324-23-5	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Pcb-araclor 1268	11100-14-4	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ

Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-21S	MW-23S	MW-24S	MW-25S	MW-26S	MW-26S
Sample ID		MW-21S-3	MW-23S-3	MW-24S-3	MW-25S-3	D-3-06-10-09-3	MW-26S-3
Sample Date		06/05/2009	06/11/2009	06/09/2009	06/10/2009	06/10/2009	06/10/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Pesticides (ug/l)							
Aldrin	309-00-2	0.05 UJ	0.09 J	0.05 U	0.05 UJ	0.05 U	0.05 U
BHC, alpha	319-84-6	0.05 R	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U
BHC, beta	319-85-7	0.05 UJ	0.0082 J	0.05 U	0.0059 J	0.05 U	0.05 U
BHC, delta	319-86-8	0.05 R	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U
BHC, gamma (Lindane)	58-89-9	0.05 R	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U
Chlordane - alpha	5103-71-9	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U
Chlordane - beta	5103-74-2	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U
DDD-4,4	72-54-8	0.1 R	0.1 UJ	0.1 U	0.01 J	0.1 U	0.1 U
DDE-4,4	72-55-9	0.1 R	0.1 UJ	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ
DDT-4,4	50-29-3	0.1 UJ	0.1 UJ	0.0057 J	0.1 UJ	0.1 U	0.1 U
Dieldrin	60-57-1	0.04 J	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U
Endosulfan I (alpha)	959-98-8	0.02 J	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U
Endosulfan II (beta)	33213-65-9	0.02 J	0.1 UJ	0.0064 J	0.02 J	0.0065 J	0.0051 J
Endosulfan Sulfate	1031-07-8	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U
Endrin	72-20-8	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U
Endrin Aldehyde	7421-93-4	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U
Endrin ketone	53494-70-5	0.1 UJ	0.1 UJ	0.1 U	0.1 UJ	0.1 U	0.1 U
Heptachlor	76-44-8	0.05 UJ	0.01 J	0.05 U	0.05 UJ	0.05 U	0.05 U
Heptachlor Epoxide	1024-57-3	0.05 UJ	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 U
Methoxychlor	72-43-5	0.5 UJ	0.5 UJ	0.008 J	0.5 UJ	0.5 U	0.5 U
Toxaphene	8001-35-2	5 R	5 UJ	5 U	5 UJ	5 U	5 U
Aroclors (ug/l)							
Pcb-araclor 1016	12674-11-2	1 R	1 UJ	1 U	1 UJ	1 U	1 U
Pcb-araclor 1221	11104-28-2	1 R	1 UJ	1 U	1 UJ	1 U	1 U
Pcb-araclor 1232	11141-16-5	1 R	1 UJ	1 U	1 UJ	1 U	1 U
Pcb-araclor 1242	53469-21-9	1 R	1 UJ	1 U	1 UJ	1 U	1 U
Pcb-araclor 1248	12672-29-6	1 R	1 UJ	1 U	1 UJ	1 U	1 U
Pcb-araclor 1254	11097-69-1	0.69 J	1 UJ	1 U	1 UJ	1 U	1 U
Pcb-araclor 1260	11096-82-5	1 R	1 UJ	1 U	1 UJ	1 U	1 U

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Analytical Results - Pesticides/PCBs
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-21S	MW-23S	MW-24S	MW-25S	MW-26S	MW-26S
Sample ID		MW-21S-3	MW-23S-3	MW-24S-3	MW-25S-3	D-3-06-10-09-3	MW-26S-3
Sample Date		06/05/2009	06/11/2009	06/09/2009	06/10/2009	06/10/2009	06/10/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Aroclors (ug/l)							
Pcb-araclor 1262	37324-23-5	1 R	1 UJ	1 U	1 UJ	1 U	1 U
Pcb-araclor 1268	11100-14-4	1 R	1 UJ	1 U	1 UJ	1 U	1 U

Table Analytical Results Metals Groundwater

Analytical Results - Metals
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-01S	MW-02S	MW-03S	MW-04S	MW-05S	MW-06S
Sample ID		MW-01S-3	MW-02S-3	MW-03S-3	MW-04S-3	MW-05S-3	MW-06S-3
Sample Date		06/01/2009	06/01/2009	06/11/2009	05/28/2009	05/28/2009	05/28/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Metals (ug/l)							
Aluminum	7429-90-5	230	137 J	200 U	233	282	244
Antimony	7440-36-0	30 U	30 U	30 U	30 U	30 U	30 U
Arsenic	7440-38-2	5 U	5.2	5 U	5 U	6	5 U
Barium	7440-39-3	152	54.5 J	266	112	76.2 J	121
Beryllium	7440-41-7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cadmium	7440-43-9	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Calcium	7440-70-2	249000	26900	159000	239000	345000	236000
Chromium	7440-47-3	4.4 J	107	21.3	3.3 J	9.1	5.1
Cobalt	7440-48-4	25 U	25 U	25 U	8.8 J	11.7 J	25 U
Copper	7440-50-8	10.5 J	7.8 J	17.1	12.5 U	16.9	23.9
Iron	7439-89-6	6660	122	199	7690	13100	8130
Lead	7439-92-1	4.7 J	42.5	22.1	3.7 J	7.8	4.4 J
Magnesium	7439-95-4	63300	9950	22700	64100	58400	66000
Manganese	7439-96-5	728 J	7.8 J	534	808 J	2110 J	969 J
Mercury	7439-97-6	0.2 U	0.2 U	0.2 U	0.04 J	0.05 J	0.1 J
Nickel	7440-02-0	10.5 J	17 J	20 U	9.5 J	162	10.9 J
Potassium	7440-09-7	18700	1660 J	8680	25400	15100	19700
Selenium	7782-49-2	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U
Silver	7440-22-4	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	7440-23-5	46500	76600	94500 J	73900	48500	62100
Thallium	7440-28-0	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
Vanadium	7440-62-2	25 U	183	15.5 J	25 U	25 U	14 J
Zinc	7440-66-6	101	30 U	110	105	356	25.5 J

Analytical Results - Metals
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-07S	MW-07S	MW-09S	MW-10D	MW-10S	MW-11D
Sample ID		D-3-05-29-09-3	MW-07S-3	MW-09S-3	MW-10D-3	MW-10S-3	MW-11D-3
Sample Date		05/29/2009	05/29/2009	05/29/2009	06/03/2009	06/03/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Metals (ug/l)							
Aluminum	7429-90-5	652 R	212 R	396	380	222	250
Antimony	7440-36-0	30 U	30 U	30 U	30 U	30 U	30 U
Arsenic	7440-38-2	5 U	5 U	11.5	5 U	5 U	5 U
Barium	7440-39-3	79.1 J	78.5 J	161	41.7 J	110	118
Beryllium	7440-41-7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cadmium	7440-43-9	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Calcium	7440-70-2	79600	68400	129000	81800	211000	51900
Chromium	7440-47-3	77.1	21.6 R	22.1	13.3	3.4 J	21.9
Cobalt	7440-48-4	25 U	25 U	25 U	25 U	25 U	25 U
Copper	7440-50-8	11.8 J	8 J	28.6	12.5 U	24.1	12.5 U
Iron	7439-89-6	4320 J	2380 J	11100	1270	1590	2750
Lead	7439-92-1	77.7	17.2 R	26.1	5 U	9.4	5 U
Magnesium	7439-95-4	26000	24200	12600	68100	58000	128000
Manganese	7439-96-5	103 J	90.6 J	594 J	159 J	456 J	121 J
Mercury	7439-97-6	0.04 J	0.2 U	0.2 U	0.2 U	0.12 J	0.2 U
Nickel	7440-02-0	22.3	8.7 J	17.2 J	20 U	9.4 J	5.4
Potassium	7440-09-7	4760 J	4550 J	6280	35700	10100	43500
Selenium	7782-49-2	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U
Silver	7440-22-4	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	7440-23-5	32200	33200	16500	263000	46400	442000
Thallium	7440-28-0	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
Vanadium	7440-62-2	32.5	19.6 J	10.5 J	34	25 U	123
Zinc	7440-66-6	43.2	15.3 J	74	30 U	28.9 J	7.3 U

Analytical Results - Metals
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-11S	MW-12S	MW-13D	MW-13S	MW-14S	MW-15D
Sample ID		MW-11S-3	MW-12S-3	MW-13D-3	MW-13S-3	MW-14S-3	MW-15D-3
Sample Date		06/03/2009	06/02/2009	06/02/2009	06/11/2009	06/02/2009	06/03/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Metals (ug/l)							
Aluminum	7429-90-5	266	1480	209	56.5 J	225	221
Antimony	7440-36-0	30 U	30 U	30 U	30 U	30 U	30 U
Arsenic	7440-38-2	2 J	17	2.3 J	5 U	5 U	5 U
Barium	7440-39-3	86.5 J	33.4 J	349	552	153	59.8 J
Beryllium	7440-41-7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cadmium	7440-43-9	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Calcium	7440-70-2	93200	35700	43700	119000	94200	95700
Chromium	7440-47-3	14.9	22.7	13.2	3.9 J	7.8	17.7
Cobalt	7440-48-4	25 U	25 U	25 U	25 U	25 U	25 U
Copper	7440-50-8	5.4 J	12.5 U	12.5 U	12.5 U	4.6 J	12.5 U
Iron	7439-89-6	2050	582	16800	5560	1790	4800
Lead	7439-92-1	5.3	5 U	5	11.3	5.3	5 U
Magnesium	7439-95-4	25400	28500	118000	11400	20200	133000
Manganese	7439-96-5	613 J	139 J	215 J	2030	338 J	930 J
Mercury	7439-97-6	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	8 J	126	20 U	20 U	20 U	20 U
Potassium	7440-09-7	4360 J	23900	52900	7160	2540 J	47500
Selenium	7782-49-2	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U
Silver	7440-22-4	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	7440-23-5	18600	375000	776000	31000 J	63400	656000
Thallium	7440-28-0	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
Vanadium	7440-62-2	12.8 J	253	46	25 U	25 U	34.8
Zinc	7440-66-6	30 U	30 U	17 J	30 U	13.3 J	18.4 J

Analytical Results - Metals
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-15S	MW-17S	MW-18S	MW-19S	MW-20S	MW-20S
Sample ID		MW-15S-3	MW-17S-3	MW-18S-3	MW-19S-3	D-3-06-05-09-2	MW-20S-3
Sample Date		06/03/2009	06/04/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Metals (ug/l)							
Aluminum	7429-90-5	319	200 U	1180	878	480	132 J
Antimony	7440-36-0	30 U	30 U	30 U	30 U	30 U	30 U
Arsenic	7440-38-2	5 U	6.1	12.6	14.7	7.1	5.1
Barium	7440-39-3	90.8 J	200	384	935	487	487
Beryllium	7440-41-7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cadmium	7440-43-9	2.5 U	2.5 U	0.91 J	1.1 J	2.5 U	2.5 U
Calcium	7440-70-2	200000	93600	132000	168000	230000	227000
Chromium	7440-47-3	3.6 J	6.1	37.3	38.6	10	7.2
Cobalt	7440-48-4	25 U	25 U	25 U	25 U	10.7 J	11 J
Copper	7440-50-8	13.7	11.3 J	37.1	29.1	6.2 J	12.5 U
Iron	7439-89-6	3350	4200	14100	32100	25800	24400
Lead	7439-92-1	10.5	3.6 J	135	143	52.3	13.7 R
Magnesium	7439-95-4	57400	9730	45100	113000	70700	70200
Manganese	7439-96-5	730 J	441	681	1160	4420	4520
Mercury	7439-97-6	0.2 U	0.09 J	0.2 U	0.1 J	0.2 U	0.2 U
Nickel	7440-02-0	7.3 J	38	32.7	32.7	13.5 J	12 J
Potassium	7440-09-7	17700	9490	21200	111000	42100	40900
Selenium	7782-49-2	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U
Silver	7440-22-4	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	7440-23-5	68100	103000 J	181000 J	267000 J	484000 J	484000 J
Thallium	7440-28-0	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U	12.5 U
Vanadium	7440-62-2	25 U	25 U	10.8 J	31.9	56.7	55.5
Zinc	7440-66-6	49.3	124	255	188	38.9	19 J

Analytical Results - Metals
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-21S	MW-23S	MW-24S	MW-25S	MW-26S	MW-26S
Sample ID		MW-21S-3	MW-23S-3	MW-24S-3	MW-25S-3	D-3-06-10-09-3	MW-26S-3
Sample Date		06/05/2009	06/11/2009	06/09/2009	06/10/2009	06/10/2009	06/10/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Metals (ug/l)							
Aluminum	7429-90-5	2600	271	489	2530	290	325
Antimony	7440-36-0	30 U	10.4 J	11.5 J	30 U	30 U	30 U
Arsenic	7440-38-2	109	24.3	14.8	25.3	4.5 J	3 J
Barium	7440-39-3	227	185	244	250	102	98.2 J
Beryllium	7440-41-7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cadmium	7440-43-9	2.9	2.5 U	2.5 U	1.8 J	2.5 U	2.5 U
Calcium	7440-70-2	131000	76200	31200	174000	97200	100000
Chromium	7440-47-3	47.9	6.5	33.4	21.6	4.1 J	3.6 J
Cobalt	7440-48-4	9.8 J	25 U	25 U	25 U	25 U	25 U
Copper	7440-50-8	359	5.4 J	9.8 J	46.6	5.1 J	4.7 J
Iron	7439-89-6	6570	8520	1270	32300	3320	3380
Lead	7439-92-1	353	27.8	25.6	98.3	7.2	6.2
Magnesium	7439-95-4	25300	10300	9140	38400	11000	11400
Manganese	7439-96-5	787	1000	95.5	366	626	604
Mercury	7439-97-6	0.53	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	171	20 U	23.5	19.8 J	20 U	20 U
Potassium	7440-09-7	30800	14100	43000	31500	6710	6890
Selenium	7782-49-2	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U	17.5 U
Silver	7440-22-4	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	7440-23-5	614000 J	118000 J	73300 J	211000 J	411000 J	415000 J
Thallium	7440-28-0	12.5 U	16.7	12.5 U	12.5 U	12.5 U	12.5 U
Vanadium	7440-62-2	85.9	25 U	25 U	17.8 J	25 U	25 U
Zinc	7440-66-6	283	49.4	43.7	170	23.1 J	19.8 J

Table Analytical Results Dissolved Metals Groundwater

Analytical Results - Dissolved Metals
Groundwater
Diamond Head RI/FS Operable Unit 2

Station ID		MW-11D	MW-11S
Sample ID		MW-11D-3	MW-11S-3
Sample Date		06/03/2009	06/03/2009
Sample Interval		N/A	N/A
Chemical Name	**CAS Number**		
Dissolved Metals (ug/l)			
Aluminum	7429-90-5	109 J	200 U
Antimony	7440-36-0	30 U	30 U
Arsenic	7440-38-2	5 U	5 U
Barium	7440-39-3	132	73.7 J
Beryllium	7440-41-7	2.5 U	2.5 U
Cadmium	7440-43-9	2.5 U	2.5 U
Calcium	7440-70-2	54800	76900
Chromium	7440-47-3	23.3	8.6
Cobalt	7440-48-4	25 U	25 U
Copper	7440-50-8	12.5 U	21
Iron	7439-89-6	2700	100 U
Lead	7439-92-1	5 U	5 U
Magnesium	7439-95-4	134000	16500
Manganese	7439-96-5	126	11
Mercury	7439-97-6	0.2 U	0.2 U
Nickel	7440-02-0	20 U	9.5 J
Potassium	7440-09-7	45700	3480 J
Selenium	7782-49-2	17.5 U	17.5 U
Silver	7440-22-4	5 U	5 U
Sodium	7440-23-5	621000	11200
Thallium	7440-28-0	12.5 U	12.5 U
Vanadium	7440-62-2	120	18.6 J
Zinc	7440-66-6	22.3 J	16.4 J

Table Analytical Results Volatile Organic Compounds Sediments

Analytical Results - Volatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-26	SD-30	SD-33	SD-34	SD-34	SD-35
Sample ID		SD-26-0.0-0.5-3	SD-30-0.0-0.5-3	SD-33-0.0-0.5-3	SD-34-0.0-0.5-3	D-3-05-27-09-02	SD-35-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/27/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Acetone	67-64-1	350 J	200	170	31	12 U	1600 U
Benzene	71-43-2	4.3 J	13 U	10 U	6.1 U	6.1 U	360 J
Bromoform	75-25-2	29 R	13 R	10 R	6.1 U	6.1 U	820 U
Bromomethane	74-83-9	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Carbon disulfide	75-15-0	2.9 J	2.2 J	1.4 J	6.1 U	6.1 U	820 U
Carbon tetrachloride	56-23-5	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Chlorobenzene	108-90-7	40 J	3.4 J	1.3 J	6.1 UJ	6.1 UJ	590 J
Chloroethane	75-00-3	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Chloroform	67-66-3	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Chloromethane	74-87-3	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Cyclohexane	110-82-7	29 UJ	13 U	10 U	6.1 U	6.1 U	3800
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	29 R	13 R	10 R	6.1 U	6.1 U	820 U
Dibromochloromethane	124-48-1	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dibromoethane-1,2	106-93-4	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichlorobenzene-1,2	95-50-1	29 UJ	13 UJ	10 R	6.1 UJ	6.1 UJ	2900
Dichlorobenzene-1,3	541-73-1	4.6 J	13 R	10 R	6.1 UJ	6.1 UJ	210 J
Dichlorobenzene-1,4	106-46-7	8.6 J	4 J	1.2 J	6.1 UJ	6.1 UJ	580 J
Dichlorobromomethane	75-27-4	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichlorodifluoromethane	75-71-8	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichloroethane-1,1	75-34-3	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichloroethane-1,2	107-06-2	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichloroethene-1,2 trans	156-60-5	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichloroethylene-1,1	75-35-4	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichloroethylene-1,2 cis	156-59-2	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichloropropane-1,2	78-87-5	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichloropropene-1,3 cis	10061-01-5	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dichloropropene-1,3 trans	10061-02-6	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Dioxane, 1,4-	123-91-1	570 R	260 R	200 R	120 R	120 R	16000 R
Ethylbenzene	100-41-4	29 UJ	13 U	10 U	6.1 U	6.1 U	8600
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	29 UJ	13 U	10 U	6.1 U	6.1 UJ	820 U

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Analytical Results - Volatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-26	SD-30	SD-33	SD-34	SD-34	SD-35
Sample ID		SD-26-0.0-0.5-3	SD-30-0.0-0.5-3	SD-33-0.0-0.5-3	SD-34-0.0-0.5-3	D-3-05-27-09-02	SD-35-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/27/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/kg)							
Hexanone-2	591-78-6	21 J	26 U	20 U	11 J	12 U	1600 U
Isopropylbenzene	98-82-8	29 UJ	13 U	10 U	6.1 U	6.1 U	2100
Methyl acetate	79-20-9	29 UJ	13 U	10 U	6.1 U	6.1 U	1900
Methyl cyclohexane	108-87-2	29 UJ	13 U	10 U	6.1 U	6.1 U	8000
Methyl ethyl ketone (2-butanone)	78-93-3	58 UJ	38 U	34 U	12 U	12 U	1600 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	57 UJ	1.9 J	20 U	12 U	12 U	1600 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Methylene chloride	75-09-2	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Styrene	100-42-5	29 UJ	12 J	4.6 J	2.2 J	6.1 U	820 U
Tetrachloroethane-1,1,2,2	79-34-5	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Tetrachloroethylene	127-18-4	29 UJ	13 U	10 U	6.1 U	6.1 U	140 J
Toluene	108-88-3	29 UJ	4.4 J	10 U	6.1 U	6.1 U	2700
Trichlorobenzene-1,2,3	87-61-6	3.6 J	2.3 J	10 R	6.1 UJ	6.1 UJ	820 U
Trichlorobenzene-1,2,4	120-82-1	3.9 J	2.1 J	10 R	6.1 UJ	6.1 UJ	440 J
Trichloroethane-1,1,1	71-55-6	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Trichloroethane-1,1,2	79-00-5	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Trichloroethylene	79-01-6	29 UJ	13 U	10 U	1.5 J	1.9 J	820 U
Trichlorofluoromethane	75-69-4	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Vinyl chloride	75-01-4	29 UJ	13 U	10 U	6.1 U	6.1 U	820 U
Xylene-o	95-47-6	29 UJ	13 UJ	10 U	6.1 U	6.1 U	22000
XYLENES, M & P	179601-23-1	29 UJ	13 UJ	10 U	6.1 U	6.1 U	20000

Analytical Results - Volatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-37	SD-38
Sample ID		SD-37-0.0-0.5-3	SD-38-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**		
Volatile Organic Compounds (ug/kg)			
Acetone	67-64-1	110	170
Benzene	71-43-2	8.4 U	8.4 U
Bromoform	75-25-2	8.4 R	8.4 R
Bromomethane	74-83-9	8.4 U	8.4 U
Carbon disulfide	75-15-0	1.3 J	1.8 J
Carbon tetrachloride	56-23-5	8.4 U	8.4 U
Chlorobenzene	108-90-7	1.1 J	1.5 J
Chloroethane	75-00-3	8.4 U	8.4 U
Chloroform	67-66-3	8.4 U	8.4 U
Chloromethane	74-87-3	8.4 U	8.4 U
Cyclohexane	110-82-7	8.4 U	8.4 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	8.4 R	8.4 R
Dibromochloromethane	124-48-1	8.4 U	8.4 U
Dibromoethane-1,2	106-93-4	8.4 U	8.4 U
Dichlorobenzene-1,2	95-50-1	8.4 UJ	8.4 UJ
Dichlorobenzene-1,3	541-73-1	8.4 R	8.4 R
Dichlorobenzene-1,4	106-46-7	2.2 J	2 J
Dichlorobromomethane	75-27-4	8.4 U	8.4 U
Dichlorodifluoromethane	75-71-8	8.4 U	8.4 U
Dichloroethane-1,1	75-34-3	8.4 U	8.4 U
Dichloroethane-1,2	107-06-2	8.4 U	8.4 U
Dichloroethene-1,2 trans	156-60-5	8.4 U	8.4 U
Dichloroethylene-1,1	75-35-4	8.4 U	8.4 U
Dichloroethylene-1,2 cis	156-59-2	2.1 J	8.4 U
Dichloropropane-1,2	78-87-5	8.4 U	8.4 U
Dichloropropene-1,3 cis	10061-01-5	8.4 U	8.4 U
Dichloropropene-1,3 trans	10061-02-6	8.4 U	8.4 U
Dioxane, 1,4-	123-91-1	170 R	170 R
Ethylbenzene	100-41-4	8.4 U	8.4 U
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	8.4 U	8.4 U

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Analytical Results - Volatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-37	SD-38
Sample ID		SD-37-0.0-0.5-3	SD-38-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**		
Volatile Organic Compounds (ug/kg)			
Hexanone-2	591-78-6	17 U	17 U
Isopropylbenzene	98-82-8	8.4 U	8.4 U
Methyl acetate	79-20-9	15	4.2 J
Methyl cyclohexane	108-87-2	16	8.4 U
Methyl ethyl ketone (2-butanone)	78-93-3	20 U	33 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	17 U	17 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	8.4 U	8.4 U
Methylene chloride	75-09-2	8.4 U	8.4 U
Styrene	100-42-5	4.2 J	7.9 J
Tetrachloroethane-1,1,2,2	79-34-5	8.4 U	8.4 U
Tetrachloroethylene	127-18-4	8.4 U	8.4 U
Toluene	108-88-3	2 J	8.4 U
Trichlorobenzene-1,2,3	87-61-6	1.2 J	8.4 R
Trichlorobenzene-1,2,4	120-82-1	1.5 J	0.94 J
Trichloroethane-1,1,1	71-55-6	8.4 U	8.4 U
Trichloroethane-1,1,2	79-00-5	8.4 U	8.4 U
Trichloroethylene	79-01-6	3.7 J	8.4 U
Trichlorofluoromethane	75-69-4	8.4 U	8.4 U
Vinyl chloride	75-01-4	8.4 U	8.4 U
Xylene-o	95-47-6	8.4 U	8.4 U
XYLENES, M & P	179601-23-1	8.4 U	8.4 U

Table Analytical Results Semivolatile Organic Compounds Sediments

Analytical Results - Semivolatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-26	SD-30	SD-33	SD-34	SD-35	SD-37
Sample ID		SD-26-0.0-0.5-3	SD-30-0.0-0.5-3	SD-33-0.0-0.5-3	SD-34-0.0-0.5-3	SD-35-0.0-0.5-3	SD-37-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Acenaphthene	83-32-9	120 J	240 J	77 J	30 J	4300 J	34 J
Acenaphthylene	208-96-8	92 J	680 UJ	410 U	34 J	29000 U	230 U
Acetophenone	98-86-2	890 UJ	82 J	410 U	260 U	29000 U	28 J
Anthracene	120-12-7	140 J	130 J	85 J	68 J	4000 J	67 J
Atrazine	1912-24-9	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Benzaldehyde	100-52-7	230 J	130 J	71 J	260 U	29000 U	29 J
Benzo(a)anthracene	56-55-3	800 J	730 J	490	330	13000 J	340
Benzo(a)pyrene	50-32-8	1300 J	1000 J	630 J	430	15000 J	430
Benzo(b)fluoranthene	205-99-2	1700 J	1600 J	850 J	470	21000 J	490
Benzo(g,h,I)perylene	191-24-2	860 J	460 J	200 J	150 J	5200 J	120 J
Benzo(k)fluoranthene	207-08-9	1700 J	1100 J	750 J	330	12000 J	400
Biphenyl	92-52-4	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Bromophenyl-4 Phenyl Ether	101-55-3	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Butylbenzyl phthalate	85-68-7	890 UJ	170 J	140 J	42 J	29000 U	54 J
Caprolactam	105-60-2	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Carbazole	86-74-8	890 UJ	69 J	46 J	28 J	29000 U	29 J
Chloroaniline-4	106-47-8	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Chloronaphthalene-2	91-58-7	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Chlorophenol-2	95-57-8	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Chlorophenyl-4 phenyl ether	7005-72-3	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Chrysene	218-01-9	1200 J	1000 J	610	390	17000 J	410
Cresol-4,6-dinitro-ortho	534-52-1	1700 UJ	1300 UJ	790 U	510 UJ	59000 UJ	440 UJ
Cresol-o	95-48-7	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Cresol-p	106-44-5	890 UJ	680 UJ	87 J	260 U	29000 U	33 J
Cresol-parachloro-meta	59-50-7	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Dibenzo(a,h)anthracene	53-70-3	220 J	120 J	51 J	57 J	29000 R	41 J
Dibenzofuran	132-64-9	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Dichlorobenzidine-3,3	91-94-1	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Dichlorophenol-2,4	120-83-2	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Dimethylphenol-2,4	105-67-9	890 UJ	680 UJ	410 U	260 U	29000 U	230 U

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Analytical Results - Semivolatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-26	SD-30	SD-33	SD-34	SD-35	SD-37
Sample ID		SD-26-0.0-0.5-3	SD-30-0.0-0.5-3	SD-33-0.0-0.5-3	SD-34-0.0-0.5-3	SD-35-0.0-0.5-3	SD-37-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Chemical Name	CAS Number						
Semivolatile Organic Compounds (ug/kg)							
Dinitrophenol-2,4	51-28-5	1700 UJ	1300 UJ	790 U	510 UJ	59000 U	440 UJ
Dinitrotoluene-2,4	121-14-2	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Dinitrotoluene-2,6	606-20-2	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Ether, bis(2-chloroethyl)	111-44-4	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Ether, bis-chloroisopropyl	108-60-1	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Fluoranthene	206-44-0	1200 J	1100 J	700	510	15000 J	540
Fluorene	86-73-7	890 UJ	680 UJ	410 U	26 J	3400 J	25 J
Hexachlorobenzene	118-74-1	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Hexachlorobutadiene	87-68-3	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Hexachlorocyclopentadiene	77-47-4	890 R	680 R	410 R	260 R	29000 R	230 R
Hexachloroethane	67-72-1	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Indeno(1,2,3-cd)pyrene	193-39-5	770 J	410 J	190 J	170 J	4400 J	130 J
Isophorone	78-59-1	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Methane, bis(2-chloroethoxy)	111-91-1	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Methylnaphthalene-2	91-57-6	890 UJ	680 UJ	410 U	260 U	25000 J	230 U
Naphthalene	91-20-3	890 UJ	680 UJ	410 U	29 J	22000 J	230 U
Nitroaniline-2	88-74-4	1700 UJ	1300 UJ	790 U	510 U	59000 U	440 U
Nitroaniline-3	99-09-2	1700 UJ	1300 UJ	790 U	510 U	59000 U	440 U
Nitroaniline-4	100-01-6	1700 UJ	1300 UJ	790 U	510 U	59000 U	440 U
Nitrobenzene	98-95-3	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Nitrophenol-2	88-75-5	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Nitrophenol-4	100-02-7	1700 UJ	1300 UJ	790 U	510 U	59000 U	440 U
Nitroso-di-n-propyl-amine-N	621-64-7	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Nitrosodiphenylamine-n	86-30-6	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
PCP (Pentachlorophenol)	87-86-5	1700 UJ	1300 UJ	790 U	510 U	59000 U	440 U
Phenanthrene	85-01-8	480 J	560 J	400 J	340	12000 J	330
Phenol	108-95-2	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	4000 UJ	3600 J	410 U	340 U	29000 U	610 U
Phthalate, diethyl	84-66-2	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Phthalate, dimethyl	131-11-3	890 UJ	680 UJ	410 U	260 U	29000 U	230 U

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Analytical Results - Semivolatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-26	SD-30	SD-33	SD-34	SD-35	SD-37
Sample ID		SD-26-0.0-0.5-3	SD-30-0.0-0.5-3	SD-33-0.0-0.5-3	SD-34-0.0-0.5-3	SD-35-0.0-0.5-3	SD-37-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**						
Semivolatile Organic Compounds (ug/kg)							
Phthalate, di-n-butyl	84-74-2	890 UJ	680 UJ	42 J	53 J	29000 U	25 J
Phthalate, di-n-octyl	117-84-0	890 R	680 R	210 J	260 UJ	29000 R	230 UJ
Pyrene	129-00-0	2200 J	1600 J	1100	790	45000	760
Tetrachlorobenzene-1,2,4,5	95-94-3	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Tetrachlorophenol-2,3,4,6	58-90-2	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Trichlorophenol-2,4,5	95-95-4	890 UJ	680 UJ	410 U	260 U	29000 U	230 U
Trichlorophenol-2,4,6	88-06-2	890 UJ	680 UJ	410 U	260 U	29000 U	230 U

Analytical Results - Semivolatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-38	SD-38
Sample ID		D-3-05-15-09-01	SD-38-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**		
Semivolatile Organic Compounds (ug/kg)			
Acenaphthene	83-32-9	85 J	45 J
Acenaphthylene	208-96-8	120 J	51 J
Acetophenone	98-86-2	41 J	400 U
Anthracene	120-12-7	490	160 J
Atrazine	1912-24-9	410 U	400 U
Benzaldehyde	100-52-7	110 J	98 J
Benzo(a)anthracene	56-55-3	3300	850
Benzo(a)pyrene	50-32-8	3100	890
Benzo(b)fluoranthene	205-99-2	4200	940
Benzo(g,h,I)perylene	191-24-2	650 J	280 J
Benzo(k)fluoranthene	207-08-9	2500	790
Biphenyl	92-52-4	410 U	400 U
Bromophenyl-4 Phenyl Ether	101-55-3	410 U	400 U
Butylbenzyl phthalate	85-68-7	410 U	63 J
Caprolactam	105-60-2	410 U	400 U
Carbazole	86-74-8	110 J	67 J
Chloroaniline-4	106-47-8	410 U	400 U
Chloronaphthalene-2	91-58-7	410 U	400 U
Chlorophenol-2	95-57-8	410 U	400 U
Chlorophenyl-4 phenyl ether	7005-72-3	410 U	400 U
Chrysene	218-01-9	3200	930
Cresol-4,6-dinitro-ortho	534-52-1	800 UJ	780 UJ
Cresol-o	95-48-7	410 U	400 U
Cresol-p	106-44-5	410 U	400 U
Cresol-parachloro-meta	59-50-7	410 U	400 U
Dibenzo(a,h)anthracene	53-70-3	240 J	110 J
Dibenzofuran	132-64-9	58 J	400 U
Dichlorobenzidine-3,3	91-94-1	410 U	400 U
Dichlorophenol-2,4	120-83-2	410 U	400 U
Dimethylphenol-2,4	105-67-9	410 U	400 U

Analytical Results - Semivolatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-38	SD-38
Sample ID		D-3-05-15-09-01	SD-38-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**		
Semivolatile Organic Compounds (ug/kg)			
Dinitrophenol-2,4	51-28-5	800 UJ	780 UJ
Dinitrotoluene-2,4	121-14-2	410 U	400 U
Dinitrotoluene-2,6	606-20-2	410 U	400 U
Ether, bis(2-chloroethyl)	111-44-4	410 U	400 U
Ether, bis-chloroisopropyl	108-60-1	410 U	400 U
Fluoranthene	206-44-0	4300	1200
Fluorene	86-73-7	96 J	50 J
Hexachlorobenzene	118-74-1	410 U	400 U
Hexachlorobutadiene	87-68-3	410 U	400 U
Hexachlorocyclopentadiene	77-47-4	410 R	400 R
Hexachloroethane	67-72-1	410 U	400 U
Indeno(1,2,3-cd)pyrene	193-39-5	800	340 J
Isophorone	78-59-1	410 U	400 U
Methane, bis(2-chloroethoxy)	111-91-1	410 U	400 U
Methylnaphthalene-2	91-57-6	410 U	400 U
Naphthalene	91-20-3	45 J	400 U
Nitroaniline-2	88-74-4	800 U	780 U
Nitroaniline-3	99-09-2	800 U	780 U
Nitroaniline-4	100-01-6	800 U	780 U
Nitrobenzene	98-95-3	410 U	400 U
Nitrophenol-2	88-75-5	410 U	400 U
Nitrophenol-4	100-02-7	800 U	780 U
Nitroso-di-n-propyl-amine-N	621-64-7	410 U	400 U
Nitrosodiphenylamine-n	86-30-6	410 U	400 U
PCP (Pentachlorophenol)	87-86-5	800 U	780 U
Phenanthrene	85-01-8	1900	690
Phenol	108-95-2	410 U	400 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	410 U	720 U
Phthalate, diethyl	84-66-2	410 U	400 U
Phthalate, dimethyl	131-11-3	410 U	400 U

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Analytical Results - Semivolatile Organic Compounds
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-38	SD-38
Sample ID		D-3-05-15-09-01	SD-38-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**		
Semivolatile Organic Compounds (ug/kg)			
Phthalate, di-n-butyl	84-74-2	410 U	40 J
Phthalate, di-n-octyl	117-84-0	410 UJ	400 UJ
Pyrene	129-00-0	5800	1700
Tetrachlorobenzene-1,2,4,5	95-94-3	410 U	400 U
Tetrachlorophenol-2,3,4,6	58-90-2	410 U	400 U
Trichlorophenol-2,4,5	95-95-4	410 U	400 U
Trichlorophenol-2,4,6	88-06-2	410 U	400 U

Table Analytical Results Pesticides PCBs Sediments

Analytical Results - Pesticides/PCBs
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-26	SD-30	SD-33	SD-34	SD-35	SD-37
Sample ID		SD-26-0.0-0.5-3	SD-30-0.0-0.5-3	SD-33-0.0-0.5-3	SD-34-0.0-0.5-3	SD-35-0.0-0.5-3	SD-37-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009
Sample Interval		0 - 0.5 FT	0 - 0.5 FT	0 - 0.5 FT	0 - 0.5 FT	0 - 0.5 FT	0 - 0.5 FT
Chemical Name	**CAS Number**						
Pesticides (ug/kg)							
Aldrin	309-00-2	9 UJ	6.7 UJ	4 U	2.6 U	8.6 R	2.3 U
BHC, alpha	319-84-6	9 UJ	6.7 UJ	4 UJ	2.6 U	31 J	2.3 U
BHC, beta	319-85-7	9 UJ	8.2 R	4 UJ	2.6 U	30 R	2.3 U
BHC, delta	319-86-8	9 UJ	6.7 UJ	4 UJ	2.6 U	7.1 R	2.3 U
BHC, gamma (Lindane)	58-89-9	9 UJ	6.7 UJ	4 UJ	2.6 U	6.5 R	2.3 U
Chlordane - alpha	5103-71-9	11 J	11 JN	5.3 J	2.6 J	22 NJ	1.8 J
Chlordane - beta	5103-74-2	9 UJ	6.7 R	4 U	2.6 U	26 R	2.3 U
DDD-4,4	72-54-8	33 J	29 J	8.9	5.6	19 R	4.2 J
DDE-4,4	72-55-9	17 UJ	13 J	5.1 J	5.1 U	32 NJ	4.4 U
DDT-4,4	50-29-3	17 UJ	13 UJ	7.8 U	7.8	54 NJ	4.4 U
Dieldrin	60-57-1	9.3 J	8.4 J	6.8 J	3 J	68 J	4.4 U
Endosulfan I (alpha)	959-98-8	9 UJ	6.7 UJ	4 U	2.6 U	20 NJ	2.3 U
Endosulfan II (beta)	33213-65-9	17 UJ	13 UJ	7.8 U	5.1 U	38 NJ	4.4 U
Endosulfan Sulfate	1031-07-8	17 UJ	13 UJ	7.8 U	5.1 U	67 J	4.4 U
Endrin	72-20-8	17 UJ	13 UJ	7.8 U	5.1 U	17 J	4.4 U
Endrin Aldehyde	7421-93-4	17 UJ	13 UJ	7.8 U	5.1 U	47 J	4.4 U
Endrin ketone	53494-70-5	9.8 UJ	13 UJ	7.8 U	3 J	23 R	4.4 U
Heptachlor	76-44-8	9 UJ	6.7 UJ	4 UJ	2.6 U	5.5 R	2.3 U
Heptachlor Epoxide	1024-57-3	9 UJ	6.7 UJ	4 U	2.6 U	12 R	2.3 U
Methoxychlor	72-43-5	90 UJ	67 UJ	40 U	26 U	45 R	23 U
Toxaphene	8001-35-2	900 UJ	670 UJ	400 U	260 U	310 UJ	230 U
Aroclors (ug/kg)							
Pcb-araclor 1016	12674-11-2	180 UJ	130 UJ	78 U	51 U	290 UJ	45 U
Pcb-araclor 1221	11104-28-2	180 UJ	130 UJ	78 U	51 U	290 UJ	45 U
Pcb-araclor 1232	11141-16-5	180 UJ	130 UJ	78 U	51 U	290 UJ	45 U
Pcb-araclor 1242	53469-21-9	180 UJ	130 UJ	78 U	51 U	290 UJ	45 U
Pcb-araclor 1248	12672-29-6	250 J	220 J	130	38 J	290 UJ	42 J
Pcb-araclor 1254	11097-69-1	360 J	250 J	190 J	48 J	290 UJ	63 J
Pcb-araclor 1260	11096-82-5	250 J	220 J	150	140	1300 J	67

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Analytical Results - Pesticides/PCBs
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-26	SD-30	SD-33	SD-34	SD-35	SD-37
Sample ID		SD-26-0.0-0.5-3	SD-30-0.0-0.5-3	SD-33-0.0-0.5-3	SD-34-0.0-0.5-3	SD-35-0.0-0.5-3	SD-37-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009
Sample Interval		0 - 0.5 FT	0 - 0.5 FT	0 - 0.5 FT	0 - 0.5 FT	0 - 0.5 FT	0 - 0.5 FT
Chemical Name	**CAS Number**						
Aroclors (ug/kg)							
Pcb-araclor 1262	37324-23-5	180 UJ	130 UJ	78 U	51 U	290 UJ	45 U
Pcb-araclor 1268	11100-14-4	180 UJ	130 UJ	78 U	51 U	290 UJ	45 U

Analytical Results - Pesticides/PCBs
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-38	SD-38
Sample ID		D-3-05-15-09-01	SD-38-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009
Sample Interval		0 - 0.5 FT	0 - 0.5 FT
Chemical Name	**CAS Number**		
Pesticides (ug/kg)			
Aldrin	309-00-2	4.2 U	3.9 U
BHC, alpha	319-84-6	4.2 UJ	3.9 UJ
BHC, beta	319-85-7	4.2 UJ	3.9 UJ
BHC, delta	319-86-8	4.2 UJ	3.9 UJ
BHC, gamma (Lindane)	58-89-9	4.2 UJ	3.9 UJ
Chlordane - alpha	5103-71-9	4.2 U	2.2 J
Chlordane - beta	5103-74-2	4.2 U	3.9 U
DDD-4,4	72-54-8	8 J	6 J
DDE-4,4	72-55-9	8.1 U	3.8 J
DDT-4,4	50-29-3	10 NJ	23
Dieldrin	60-57-1	5.2 J	7.6 U
Endosulfan I (alpha)	959-98-8	4.2 U	3.9 U
Endosulfan II (beta)	33213-65-9	8.1 U	7.6 U
Endosulfan Sulfate	1031-07-8	11 R	7.6 U
Endrin	72-20-8	8.1 U	7.6 U
Endrin Aldehyde	7421-93-4	10 J	7.6 U
Endrin ketone	53494-70-5	8.9 R	7.6 U
Heptachlor	76-44-8	4.2 UJ	3.9 UJ
Heptachlor Epoxide	1024-57-3	4.2 U	3.9 U
Methoxychlor	72-43-5	42 U	39 U
Toxaphene	8001-35-2	420 U	390 U
Aroclors (ug/kg)			
Pcb-araclor 1016	12674-11-2	80 U	77 U
Pcb-araclor 1221	11104-28-2	80 U	77 U
Pcb-araclor 1232	11141-16-5	80 U	77 U
Pcb-araclor 1242	53469-21-9	80 U	77 U
Pcb-araclor 1248	12672-29-6	40 J	43
Pcb-araclor 1254	11097-69-1	86	88
Pcb-araclor 1260	11096-82-5	200	220

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Analytical Results - Pesticides/PCBs
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-38	SD-38
Sample ID		D-3-05-15-09-01	SD-38-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009
Sample Interval		0 - 0.5 FT	0 - 0.5 FT
Chemical Name	**CAS Number**		
Aroclors (ug/kg)			
Pcb-araclor 1262	37324-23-5	80 U	77 U
Pcb-araclor 1268	11100-14-4	80 U	77 U

Table Analytical Results Metals Sediments

Analytical Results - Metals
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-26	SD-30	SD-33	SD-34	SD-35	SD-37
Sample ID		SD-26-0.0-0.5-3	SD-30-0.0-0.5-3	SD-33-0.0-0.5-3	SD-34-0.0-0.5-3	SD-35-0.0-0.5-3	SD-37-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**						
Metals (ug/kg)							
Aluminum	7429-90-5	8420000 J	7580000 J	6280000 J	4900000 J	3300000 J	7180000 J
Antimony	7440-36-0	4000 J	2900 J	2300 J	510 J	1900 J	880 J
Arsenic	7440-38-2	14200 J	13400 J	6500 J	5200	5100	4700
Barium	7440-39-3	332000 J	181000 J	134000 J	70800	530000	83200
Beryllium	7440-41-7	540 J	470 J	370 J	730 U	880 U	950 U
Cadmium	7440-43-9	8300 J	4400 J	2100 J	1900	4200	1400
Calcium	7440-70-2	17200000 J	13000000 J	5600000 J	1900000	10900000	3350000
Chromium	7440-47-3	166000 J	103000 J	65200 J	29500	100000	58600
Cobalt	7440-48-4	20000 UJ	15400 UJ	10900 UJ	7300 U	8800 U	9500 U
Copper	7440-50-8	277000 J	201000 J	146000 J	70400	133000	133000
Iron	7439-89-6	44300000 J	34200000 J	22900000 J	11400000	11900000	18100000
Lead	7439-92-1	400000 J	246000 J	228000 J	114000	372000	170000
Magnesium	7439-95-4	5310000 J	4990000 J	4080000 J	2460000	2070000	4260000
Manganese	7439-96-5	449000 J	267000 J	201000 J	163000	156000	171000
Mercury	7439-97-6	1600 J	1400 J	1000 J	830	680	630
Nickel	7440-02-0	45100 J	32500 J	26600 J	14700	21700	28500
Potassium	7440-09-7	1250000 J	1220000 J	1010000 J	791000	476000 J	1230000
Selenium	7782-49-2	14000 UJ	10800 UJ	7700 UJ	5100 U	6100 U	6600 U
Silver	7440-22-4	1800 J	1300 J	2200 UJ	1500 U	1700 U	990 J
Sodium	7440-23-5	2000000 UJ	1540000 UJ	1230000 J	726000 U	876000 U	945000 U
Thallium	7440-28-0	1900 J	1400 J	930 J	560 J	340 J	1200 J
Vanadium	7440-62-2	61400 J	44700 J	31400 J	20000	31700	27600
Zinc	7440-66-6	1170000 J	724000 J	494000 J	157000 J	567000 J	370000 J

Analytical Results - Metals
Sediment
Diamond Head RI/FS Operable Unit 2

Station ID		SD-38	SD-38
Sample ID		D-3-05-15-09-01	SD-38-0.0-0.5-3
Sample Date		05/15/2009	05/15/2009
Sample Interval		0 - 0.5 ft	0 - 0.5 ft
Chemical Name	**CAS Number**		
Metals (ug/kg)			
Aluminum	7429-90-5	4640000 J	3910000 J
Antimony	7440-36-0	6200 J	3500 J
Arsenic	7440-38-2	17100 J	19100
Barium	7440-39-3	294000 J	330000
Beryllium	7440-41-7	1100 UJ	950 U
Cadmium	7440-43-9	1700 J	2600
Calcium	7440-70-2	7590000 J	5920000
Chromium	7440-47-3	34100 J	42800
Cobalt	7440-48-4	10700 UJ	9500 U
Copper	7440-50-8	206000 J	207000
Iron	7439-89-6	52500000 J	52600000
Lead	7439-92-1	824000 J	719000
Magnesium	7439-95-4	1300000 J	1430000
Manganese	7439-96-5	173000 J	191000
Mercury	7439-97-6	590 R	2100
Nickel	7440-02-0	46500 J	48900
Potassium	7440-09-7	517000 J	533000 J
Selenium	7782-49-2	2200 J	2000 J
Silver	7440-22-4	2100 UJ	890 J
Sodium	7440-23-5	1070000 UJ	951000 U
Thallium	7440-28-0	2200 J	1900 J
Vanadium	7440-62-2	31300 J	38600
Zinc	7440-66-6	906000 J	751000 J

Table Analytical Results Metals Equipment and Trip Blanks

Analytical Results -Volatile Organic Compounds
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		E-3-05-29-09-3	T-3-05-29-09-3	E-3-06-04-09-3	T-3-06-04-09-3	E-3-06-05-09-3	T-3-06-05-09-3
Sample Date		05/29/2009	05/29/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Acetone	67-64-1	7.5	4.9 J	3.7 J	5.3	5.8	5.6
Benzene	71-43-2	0.5 U	0.5 U	0.1 J	0.09 J	0.2 J	0.26 J
Bromoform	75-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	74-83-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	75-15-0	0.5 U	0.31 J	0.5 U	0.18 J	0.5 U	0.18 J
Carbon tetrachloride	56-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	0.06 J	0.06 J	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobromomethane	74-97-5	0.05 J	0.06 J	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	75-00-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	67-66-3	0.77	0.57	0.59	0.66	0.76	0.8
Chloromethane	74-87-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	110-82-7	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	124-48-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromoethane-1,2	106-93-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,2	95-50-1	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,3	541-73-1	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobenzene-1,4	106-46-7	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorobromomethane	75-27-4	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	75-71-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethane-1,1	75-34-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethane-1,2	107-06-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethene-1,2 trans	156-60-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethylene-1,1	75-35-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloroethylene-1,2 cis	156-59-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloropropane-1,2	78-87-5	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloropropene-1,3 cis	10061-01-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloropropene-1,3 trans	10061-02-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	100-41-4	0.39 J	0.42 J	0.5 U	0.5 U	0.17 J	0.2 J
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

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Analytical Results -Volatile Organic Compounds
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		E-3-05-29-09-3	T-3-05-29-09-3	E-3-06-04-09-3	T-3-06-04-09-3	E-3-06-05-09-3	T-3-06-05-09-3
Sample Date		05/29/2009	05/29/2009	06/04/2009	06/04/2009	06/05/2009	06/05/2009
Sample Interval		N/A	N/A	N/A	N/A	N/A	N/A
Chemical Name	**CAS Number**						
Volatile Organic Compounds (ug/l)							
Hexanone-2	591-78-6	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	98-82-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl acetate	79-20-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl cyclohexane	108-87-2	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl ethyl ketone (2-butanone)	78-93-3	5 U	5 U	5 U	1.7 J	5 U	1.5 J
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	75-09-2	0.5 U	0.5 U	0.6	0.65	0.5 J	0.59
Styrene	100-42-5	0.06 J	0.06 J	0.23 J	0.27 J	0.14 J	0.18 J
Tetrachloroethane-1,1,2,2	79-34-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethylene	127-18-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	0.34 J	0.31 J	1.7	1.8	2.2	2.6
Trichlorobenzene-1,2,3	87-61-6	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorobenzene-1,2,4	120-82-1	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethane-1,1,1	71-55-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethane-1,1,2	79-00-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethylene	79-01-6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.05 J
Trichlorofluoromethane	75-69-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	75-01-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene-o	95-47-6	0.37 J	0.38 J	0.5 U	0.5 U	0.22 J	0.22 J
XYLENES, M & P	179601-23-1	0.99	1	0.33 J	0.31 J	0.62	0.71

Analytical Results -Volatile Organic Compounds
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		T-3-06-10-09-3	T-3-06-12-09-3
Sample Date		06/10/2009	06/12/2009
Sample Interval		N/A	N/A
Chemical Name	**CAS Number**		
Volatile Organic Compounds (ug/l)			
Acetone	67-64-1	5.3	4.7 J
Benzene	71-43-2	0.34 J	0.47 J
Bromoform	75-25-2	0.5 U	0.5 U
Bromomethane	74-83-9	0.5 U	0.5 U
Carbon disulfide	75-15-0	0.5 U	0.22 J
Carbon tetrachloride	56-23-5	0.5 U	0.5 U
Chlorobenzene	108-90-7	0.5 U	0.5 U
Chlorobromomethane	74-97-5	0.5 U	0.5 U
Chloroethane	75-00-3	0.5 U	0.5 U
Chloroform	67-66-3	0.36 J	0.39 J
Chloromethane	74-87-3	0.5 U	0.5 U
Cyclohexane	110-82-7	0.5 U	0.5 U
DBCP (1,2-dibromo-3-chloropropane)	96-12-8	0.5 U	0.5 U
Dibromochloromethane	124-48-1	0.5 U	0.5 U
Dibromoethane-1,2	106-93-4	0.5 U	0.5 U
Dichlorobenzene-1,2	95-50-1	0.5 U	0.5 U
Dichlorobenzene-1,3	541-73-1	0.5 U	0.5 U
Dichlorobenzene-1,4	106-46-7	0.5 U	0.5 U
Dichlorobromomethane	75-27-4	0.5 U	0.5 U
Dichlorodifluoromethane	75-71-8	0.5 U	0.5 U
Dichloroethane-1,1	75-34-3	0.5 U	0.5 U
Dichloroethane-1,2	107-06-2	0.5 U	0.5 U
Dichloroethene-1,2 trans	156-60-5	0.5 U	0.5 U
Dichloroethylene-1,1	75-35-4	0.5 U	0.5 U
Dichloroethylene-1,2 cis	156-59-2	0.5 U	0.5 U
Dichloropropane-1,2	78-87-5	0.5 U	0.5 U
Dichloropropene-1,3 cis	10061-01-5	0.5 U	0.5 U
Dichloropropene-1,3 trans	10061-02-6	0.5 U	0.22 J
Ethylbenzene	100-41-4	0.19 J	0.25 J
Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	0.5 U	0.5 U

Analytical Results -Volatile Organic Compounds
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		T-3-06-10-09-3	T-3-06-12-09-3
Sample Date		06/10/2009	06/12/2009
Sample Interval		N/A	N/A
Chemical Name	**CAS Number**		
Volatile Organic Compounds (ug/l)			
Hexanone-2	591-78-6	5 U	5 U
Isopropylbenzene	98-82-8	0.5 U	0.5 U
Methyl acetate	79-20-9	0.5 U	0.5 U
Methyl cyclohexane	108-87-2	0.5 U	0.5 U
Methyl ethyl ketone (2-butanone)	78-93-3	5 U	5 U
Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	5 U	5 U
Methyl tertiary butyl ether (MTBE)	1634-04-4	0.5 U	0.5 U
Methylene chloride	75-09-2	0.15 J	0.18 J
Styrene	100-42-5	0.5 U	0.5 U
Tetrachloroethane-1,1,2,2	79-34-5	0.5 U	0.5 U
Tetrachloroethylene	127-18-4	0.5 U	0.5 U
Toluene	108-88-3	2.7	3.6
Trichlorobenzene-1,2,3	87-61-6	0.5 U	0.5 U
Trichlorobenzene-1,2,4	120-82-1	0.5 U	0.5 U
Trichloroethane-1,1,1	71-55-6	0.5 U	0.5 U
Trichloroethane-1,1,2	79-00-5	0.5 U	0.5 U
Trichloroethylene	79-01-6	0.5 U	0.5 U
Trichlorofluoromethane	75-69-4	0.5 U	0.5 U
Vinyl chloride	75-01-4	0.5 U	0.5 U
Xylene-o	95-47-6	0.32 J	0.48 J
XYLENES, M & P	179601-23-1	0.85	1.1

Analytical Results -Semivolatile Organic Compounds
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		E-3-05-29-09-3	E-3-06-04-09-3	E-3-06-05-09-3
Sample Date		05/29/2009	06/04/2009	06/05/2009
Sample Interval		N/A	N/A	N/A
Chemical Name	CAS Number			
Semivolatile Organic Compounds (ug/l)				
Acenaphthene	83-32-9	5 U	5 U	5 U
Acenaphthylene	208-96-8	5 U	5 U	5 U
Acetophenone	98-86-2	5 U	5 U	5 U
Anthracene	120-12-7	5 U	5 U	5 U
Atrazine	1912-24-9	5 U	5 U	5 U
Benzaldehyde	100-52-7	5 U	5 U	5 U
Benzo(a)anthracene	56-55-3	5 U	5 U	5 U
Benzo(a)pyrene	50-32-8	5 U	5 U	5 U
Benzo(b)fluoranthene	205-99-2	5 U	5 U	5 U
Benzo(g,h,I)perylene	191-24-2	5 U	5 U	5 U
Benzo(k)fluoranthene	207-08-9	5 U	5 U	5 U
Biphenyl	92-52-4	5 U	5 U	5 U
Bromophenyl-4 Phenyl Ether	101-55-3	5 U	5 U	5 U
Butylbenzyl phthalate	85-68-7	5 U	5 U	5 U
Caprolactam	105-60-2	5 U	5 U	5 U
Chloroaniline-4	106-47-8	5 U	5 U	5 U
Chloronaphthalene-2	91-58-7	5 U	5 U	5 U
Chlorophenol-2	95-57-8	5 U	5 U	5 U
Chlorophenyl-4 phenyl ether	7005-72-3	5 U	5 U	5 U
Chrysene	218-01-9	5 U	5 U	5 U
Cresol-4,6-dinitro-ortho	534-52-1	10 U	10 U	10 U
Cresol-o	95-48-7	5 U	5 U	5 U
Cresol-p	106-44-5	5 U	5 U	5 U
Cresol-parachloro-meta	59-50-7	5 U	5 U	5 U
Dibenzo(a,h)anthracene	53-70-3	5 U	5 U	5 U
Dibenzofuran	132-64-9	5 U	5 U	5 U
Dichlorobenzidine-3,3	91-94-1	5 U	5 U	5 U
Dichlorophenol-2,4	120-83-2	5 U	5 U	5 U
Dimethylphenol-2,4	105-67-9	5 U	5 U	5 U
Dinitrophenol-2,4	51-28-5	10 U	10 U	10 U

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Analytical Results -Semivolatile Organic Compounds
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		E-3-05-29-09-3	E-3-06-04-09-3	E-3-06-05-09-3
Sample Date		05/29/2009	06/04/2009	06/05/2009
Sample Interval		N/A	N/A	N/A
Chemical Name	**CAS Number**			
Semivolatile Organic Compounds (ug/l)				
Dinitrotoluene-2,4	121-14-2	5 U	5 U	5 U
Dinitrotoluene-2,6	606-20-2	5 U	5 U	5 U
Ether, bis(2-chloroethyl)	111-44-4	5 U	5 U	5 U
Ether, bis-chloroisopropyl	108-60-1	5 U	5 U	5 U
Fluoranthene	206-44-0	5 U	5 U	5 U
Fluorene	86-73-7	5 U	5 U	5 U
Hexachlorobenzene	118-74-1	5 U	5 U	5 U
Hexachlorobutadiene	87-68-3	5 U	5 U	5 U
Hexachlorocyclopentadiene	77-47-4	5 U	5 U	5 U
Hexachloroethane	67-72-1	5 U	5 U	5 U
Indeno(1,2,3-cd)pyrene	193-39-5	5 U	5 U	5 U
Isophorone	78-59-1	5 U	5 U	5 U
Methane, bis(2-chloroethoxy)	111-91-1	5 U	5 U	5 U
Methylnaphthalene-2	91-57-6	5 U	5 U	5 U
Naphthalene	91-20-3	5 U	5 U	5 U
Nitroaniline-2	88-74-4	10 U	10 U	10 U
Nitroaniline-3	99-09-2	10 U	10 U	10 U
Nitroaniline-4	100-01-6	10 U	10 U	10 U
Nitrobenzene	98-95-3	5 U	5 U	5 U
Nitrophenol-2	88-75-5	5 U	5 U	5 U
Nitrophenol-4	100-02-7	10 U	10 U	10 U
Nitroso-di-n-propyl-amine-N	621-64-7	5 U	5 U	5 U
Nitrosodiphenylamine-n	86-30-6	5 U	5 U	5 U
PCP (Pentachlorophenol)	87-86-5	10 U	10 UJ	10 UJ
Phenanthrene	85-01-8	5 U	5 U	5 U
Phenol	108-95-2	5 U	5 U	5 U
Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	5 U	5 U	5 U
Phthalate, diethyl	84-66-2	5 U	5 U	5 U
Phthalate, dimethyl	131-11-3	5 U	5 U	5 U
Phthalate, di-n-butyl	84-74-2	5 U	5 U	5 U

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Analytical Results -Semivolatile Organic Compounds
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		E-3-05-29-09-3	E-3-06-04-09-3	E-3-06-05-09-3
Sample Date		05/29/2009	06/04/2009	06/05/2009
Sample Interval		N/A	N/A	N/A
Chemical Name	**CAS Number**			
Semivolatile Organic Compounds (ug/l)				
Phthalate, di-n-octyl	117-84-0	5 U	5 U	5 U
Pyrene	129-00-0	5 U	5 U	5 U
Tetrachlorobenzene-1,2,4,5	95-94-3	5 U	5 U	5 U
Trichlorophenol-2,4,5	95-95-4	5 U	5 U	5 U
Trichlorophenol-2,4,6	88-06-2	5 U	5 U	5 U

Analytical Results -Pesticides/PCBs
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		E-3-05-29-09-3	E-3-06-04-09-3	E-3-06-05-09-3
Sample Date		05/29/2009	06/04/2009	06/05/2009
Sample Interval		N/A	N/A	N/A
Chemical Name	**CAS Number**			
Pesticides (ug/l)				
Aldrin	309-00-2	0.05 U	0.05 UJ	0.01 J
BHC, alpha	319-84-6	0.05 U	0.05 UJ	0.05 UJ
BHC, beta	319-85-7	0.05 U	0.05 UJ	0.05 UJ
BHC, delta	319-86-8	0.05 U	0.05 UJ	0.05 UJ
BHC, gamma (Lindane)	58-89-9	0.05 U	0.05 UJ	0.05 UJ
Chlordane - alpha	5103-71-9	0.05 U	0.05 UJ	0.05 UJ
Chlordane - beta	5103-74-2	0.05 U	0.05 UJ	0.05 UJ
DDD-4,4	72-54-8	0.1 U	0.1 UJ	0.1 UJ
DDE-4,4	72-55-9	0.1 U	0.1 UJ	0.1 UJ
DDT-4,4	50-29-3	0.1 U	0.1 UJ	0.1 UJ
Dieldrin	60-57-1	0.1 U	0.1 UJ	0.1 UJ
Endosulfan I (alpha)	959-98-8	0.05 U	0.05 UJ	0.05 UJ
Endosulfan II (beta)	33213-65-9	0.1 U	0.1 UJ	0.1 UJ
Endosulfan Sulfate	1031-07-8	0.1 U	0.1 UJ	0.1 UJ
Endrin	72-20-8	0.1 U	0.1 UJ	0.1 UJ
Endrin Aldehyde	7421-93-4	0.1 U	0.1 UJ	0.1 UJ
Endrin ketone	53494-70-5	0.1 U	0.1 UJ	0.1 UJ
Heptachlor	76-44-8	0.05 U	0.05 UJ	0.05 UJ
Heptachlor Epoxide	1024-57-3	0.05 U	0.05 UJ	0.05 UJ
Methoxychlor	72-43-5	0.5 U	0.5 UJ	0.5 UJ
Toxaphene	8001-35-2	5 U	5 UJ	5 UJ
Aroclors (ug/l)				
Pcb-araclor 1016	12674-11-2	1 UJ	1 UJ	1 UJ
Pcb-araclor 1221	11104-28-2	1 UJ	1 UJ	1 UJ
Pcb-araclor 1232	11141-16-5	1 UJ	1 UJ	1 UJ
Pcb-araclor 1242	53469-21-9	1 UJ	1 UJ	1 UJ
Pcb-araclor 1248	12672-29-6	1 UJ	1 UJ	1 UJ
Pcb-araclor 1254	11097-69-1	1 UJ	1 UJ	1 UJ
Pcb-araclor 1260	11096-82-5	1 UJ	1 UJ	1 UJ

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Analytical Results -Pesticides/PCBs
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		E-3-05-29-09-3	E-3-06-04-09-3	E-3-06-05-09-3
Sample Date		05/29/2009	06/04/2009	06/05/2009
Sample Interval		N/A	N/A	N/A
Chemical Name	**CAS Number**			
Aroclors (ug/l)				
Pcb-araclor 1262	37324-23-5	1 UJ	1 UJ	1 UJ
Pcb-araclor 1268	11100-14-4	1 UJ	1 UJ	1 UJ

Analytical Results -Metals
Equipment Blanks/Trip Blanks
Diamond Head RI/FS Operable Unit 2

Sample ID		E-3-05-29-09-3	E-3-06-04-09-3	E-3-06-05-09-3
Sample Date		05/29/2009	06/04/2009	06/05/2009
Sample Interval		N/A	N/A	N/A
Chemical Name	**CAS Number**			
Metals (ug/l)				
Aluminum	7429-90-5	200 U	200 U	200 U
Antimony	7440-36-0	30 U	30 U	30 U
Arsenic	7440-38-2	5 U	5 U	5 U
Barium	7440-39-3	100 U	100 U	100 U
Beryllium	7440-41-7	2.5 U	2.5 U	2.5 U
Cadmium	7440-43-9	2.5 U	2.5 U	2.5 U
Calcium	7440-70-2	5000 U	5000 U	5000 U
Chromium	7440-47-3	5 U	5 U	5 U
Cobalt	7440-48-4	25 U	25 U	25 U
Copper	7440-50-8	12.5 U	12.5 U	12.5 U
Iron	7439-89-6	100 U	100 U	100 U
Lead	7439-92-1	5 U	5 U	5 U
Magnesium	7439-95-4	5000 U	5000 U	5000 U
Manganese	7439-96-5	7.5 U	7.5 U	7.5 U
Mercury	7439-97-6	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	20 U	20 U	20 U
Potassium	7440-09-7	5000 U	5000 U	5000 U
Selenium	7782-49-2	17.5 U	17.5 U	17.5 U
Silver	7440-22-4	5 U	5 U	5 U
Sodium	7440-23-5	5000 U	5000 U	5000 U
Thallium	7440-28-0	12.5 U	12.5 U	12.5 U
Vanadium	7440-62-2	25 U	25 U	25 U
Zinc	7440-66-6	30 U	30 U	30 U

Appendix E
Analytical Results—Analyses—Subcontracted Laboratory

Appendix E

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Table Decon Water Characterization Sampling TCL-Full List and TAL Metals Results

Table IDW Soil Characterization Sampling TCLP Results

Appendix
Table
Decon Water Characterization Sampling
TCL-Full List TAL-Metal Results
Diamond Head RI/FS
Opereable Unit 2

Sample ID		IDW-03-3	
Sampling Date		6/12/2009	
Matrix		Water	
Dilution Factor		1	
Units		ug/L	
Compound	**CAS #**		
Volatile Organic Compounds			
Dilution Factor		1	
Dichlorodifluoromethane	75-71-8	0.5	U
Chloromethane	74-87-3	0.5	U
Vinyl chloride	75-01-4	0.5	U
Bromomethane	74-83-9	0.5	U
Chloroethane	75-00-3	0.5	U
Trichlorofluoromethane	75-69-4	0.5	U
1,1-Dichloroethene	75-35-4	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.5	U
Acetone	67-64-1	160	
Carbon Disulfide	75-15-0	1.5	
Methyl acetate	79-20-9	0.5	U
Methylene chloride	75-09-2	0.5	U
trans-1,2-Dichloroethene	156-60-5	0.5	U
Methyl tert-butyl ether	1634-04-4	0.5	U
1,1-Dichloroethane	75-34-3	0.5	U
cis-1,2-Dichloroethene	156-59-2	0.5	U
2-Butanone	78-93-3	5	U
Bromochloromethane	74-97-5	0.5	U
Chloroform	67-66-3	0.95	
1,1,1-Trichloroethane	71-55-6	0.5	U
Cyclohexane	110-82-7	0.5	U
Carbon tetrachloride	56-23-5	0.5	U
Benzene	71-43-2	0.5	U
1,2-Dichloroethane	107-06-2	0.5	U
Trichloroethene	79-01-6	0.077	J
Methylcyclohexane	108-87-2	1	
1,2-Dichloropropane	78-87-5	0.5	U
Bromodichloromethane	75-27-4	0.5	U
cis-1,3-Dichloropropene	10061-01-5	0.5	U
4-Methyl-2-pentanone	108-10-1	5	U
Toluene	108-88-3	0.5	U
trans-1,3-Dichloropropene	10061-02-6	0.5	U
1,1,2-Trichloroethane	79-00-5	0.5	U
Tetrachloroethene	127-18-4	0.5	U
2-Hexanone	591-78-6	5	U
Dibromochloromethane	124-48-1	0.5	U
1,2-Dibromoethane	106-93-4	0.5	U
Chlorobenzene	108-90-7	0.11	J
Ethylbenzene	100-41-4	0.5	U
o-Xylene	95-47-6	0.5	U
m,p-Xylene	179601-23-1	2.5	
Styrene	100-42-5	0.5	U
Bromoform	75-25-2	0.5	U

Appendix
Table
Decon Water Characterization Sampling
TCL-Full List TAL-Metal Results
Diamond Head RI/FS
Opereable Unit 2

Sample ID		IDW-03-3	
Sampling Date		6/12/2009	
Matrix		Water	
Dilution Factor		1	
Units		ug/L	
Compound	**CAS #**		
Isopropylbenzene	98-82-8	0.16	J
1,1,2,2-Tetrachloroethane	79-34-5	0.5	U
1,3-Dichlorobenzene	541-73-1	0.5	U
1,4-Dichlorobenzene	106-46-7	0.5	U
1,2-Dichlorobenzene	95-50-1	0.5	U
1,2-Dibromo-3-chloropropane	96-12-8	0.5	U
1,2,4-Trichlorobenzene	120-82-1	0.5	U
1,2,3-Trichlorobenzene	87-61-6	0.5	U
Semi Volatile Organic Compounds			
Dilution Factor		1	
Benzaldehyde	100-52-7	25	U
Phenol	108-95-2	25	U
Bis(2-Chloroethyl)ether	111-44-4	25	UJ
2-Chlorophenol	95-57-8	25	U
2-Methylphenol	95-48-7	25	U
2,2'-Oxybis(1-chloropropane)	108-60-1	25	UJ
Acetophenone	98-86-2	25	UJ
4-Methylphenol	106-44-5	25	U
N-Nitroso-di-n-propylamine	621-64-7	25	UJ
Hexachloroethane	67-72-1	25	UJ
Nitrobenzene	98-95-3	25	UJ
Isophorone	78-59-1	25	UJ
2-Nitrophenol	88-75-5	25	UJ
2,4-Dimethylphenol	105-67-9	25	U
Bis(2-Chloroethoxy)methane	111-91-1	25	UJ
2,4-Dichlorophenol	120-83-2	25	U
Naphthalene	91-20-3	5.7	J
4-Chloroaniline	106-47-8	25	UJ
Hexachlorobutadiene	87-68-3	25	U
Caprolactam	105-60-2	25	U
4-Chloro-3-methylphenol	59-50-7	25	U
2-Methylnaphthalene	91-57-6	4.5	J
Hexachlorocyclopentadiene	77-47-4	25	UJ
2,4,6-Trichlorophenol	88-06-2	25	U
2,4,5-Trichlorophenol	95-95-4	25	U
1,1'-Biphenyl	92-52-4	25	U
2-Chloronaphthalene	91-58-7	25	UJ
2-Nitroaniline	88-74-4	50	U
Dimethylphthalate	131-11-3	25	U
2,6-Dinitrotoluene	606-20-2	25	UJ
Acenaphthylene	208-96-8	25	UJ
3-Nitroaniline	99-09-2	50	U
Acenaphthene	83-32-9	6.3	J
2,4-Dinitrophenol	51-28-5	50	U
4-Nitrophenol	100-02-7	50	U

Appendix
Table
Decon Water Characterization Sampling
TCL-Full List TAL-Metal Results
Diamond Head RI/FS
Opereable Unit 2

Sample ID		IDW-03-3	
Sampling Date		6/12/2009	
Matrix		Water	
Dilution Factor		1	
Units		ug/L	
Compound	**CAS #**		
Dibenzofuran	132-64-9	25	UJ
2,4-Dinitrotoluene	121-14-2	25	UJ
Diethylphthalate	84-66-2	25	U
Fluorene	86-73-7	4.6	J
4-Chlorophenyl-phenylether	7005-72-3	25	UJ
4-Nitroaniline	100-01-6	50	U
4,6-Dinitro-2-methylphenol	534-52-1	50	U
N-Nitrosodiphenylamine	86-30-6	25	UJ
1,2,4,5-Tetrachlorobenzene	95-94-3	25	U
4-Bromophenyl-phenylether	101-55-3	25	UJ
Hexachlorobenzene	118-74-1	25	UJ
Atrazine	1912-24-9	25	UJ
Pentachlorophenol	87-86-5	50	U
Phenanthrene	85-01-8	24	J
Anthracene	120-12-7	8.2	J
Carbazole	86-74-8	25	UJ
Di-n-butylphthalate	84-74-2	25	U
Fluoranthene	206-44-0	24	J
Pyrene	129-00-0	26	J
Butylbenzylphthalate	85-68-7	25	U
3,3'-Dichlorobenzidine	91-94-1	25	UJ
Benzo(a)anthracene	56-55-3	13	J
Chrysene	218-01-9	15	J
Bis(2-ethylhexyl)phthalate	117-81-7	**38**	
Di-n-octylphthalate	117-84-0	25	U
Benzo(b)fluoranthene	205-99-2	14	J
Benzo(k)fluoranthene	207-08-9	5.7	J
Benzo(a)pyrene	50-32-8	12	J
Indeno(1,2,3-cd)pyrene	193-39-5	7.1	J
Dibenzo(a,h)anthracene	53-70-3	2.8	J
Benzo(g,h,i)perylene	191-24-2	7.9	J
2,3,4,6-Tetrachlorophenol	58-90-2	25	U
PCBs			
Dilution Factor		1	
Aroclor-1016	12674-11-2	1	U
Aroclor-1221	11104-28-2	1	U
Aroclor-1232	11141-16-5	1	U
Aroclor-1242	53469-21-9	1	U
Aroclor-1248	12672-29-6	1.1	
Aroclor-1254	11097-69-1	1	U
Aroclor-1260	11096-82-5	0.44	J
Aroclor-1262	37324-23-5	1	U
Aroclor-1268	11100-14-4	1	U
Pesticides			
Dilution Factor		1	

Appendix
Table
Decon Water Characterization Sampling
TCL-Full List TAL-Metal Results
Diamond Head RI/FS
Opereable Unit 2

Sample ID		IDW-03-3	
Sampling Date		6/12/2009	
Matrix		Water	
Dilution Factor		1	
Units		ug/L	
Compound	**CAS #**		
alpha-BHC	319-84-6	0.05	UJ
beta-BHC	319-85-7	0.05	UJ
delta-BHC	319-86-8	0.05	UJ
gamma-BHC (Lindane)	58-89-9	0.05	UJ
Heptachlor	76-44-8	0.05	UJ
Aldrin	309-00-2	0.05	UJ
Heptachlor epoxide	1024-57-3	0.05	UJ
Endosulfan I	959-98-8	0.05	UJ
Dieldrin	60-57-1	**0.036**	J
4,4'-DDE	72-55-9	0.1	UJ
Endrin	72-20-8	0.1	UJ
Endosulfan II	33213-65-9	0.0079	J
4,4'-DDD	72-54-8	0.019	J
Endosulfan sulfate	1031-07-8	0.1	UJ
4,4'-DDT	50-29-3	0.1	UJ
Methoxychlor	72-43-5	0.5	UJ
Endrin ketone	53494-70-5	0.1	UJ
Endrin aldehyde	7421-93-4	0.1	UJ
alpha-Chlordane	5103-71-9	0.05	UJ
gamma-Chlordane	5103-74-2	0.05	UJ
Toxaphene	8001-35-2	5	UJ
Metals			
Dilution Factor		1	
Aluminum	7429-90-5	**7550**	
Antimony	7440-36-0	60	U
Arsenic	7440-38-2	10	U
Barium	7440-39-3	200	U
Beryllium	7440-41-7	5	U
Cadmium	7440-43-9	5	U
Calcium	7440-70-2	90600	
Chromium	7440-47-3	50	U
Cobalt	7440-48-4	25	U
Copper	7440-50-8	100	U
Iron	7439-89-6	**26300**	
Lead	7439-92-1	10	U
Magnesium	7439-95-4	7610	
Manganese	7439-96-5	15	U
Mercury	7439-97-6	0.068	
Nickel	7440-02-0	40	J
Potassium	7440-09-7	21400	
Selenium	7782-49-2	35	U
Silver	7440-22-4	10	U
Sodium	7440-23-5	**56600**	
Thallium	7440-28-0	25	J
Vanadium	7440-62-2	50	U

Appendix
Table
Decon Water Characterization Sampling
TCL-Full List TAL-Metal Results
Diamond Head RI/FS
Opereable Unit 2

Sample ID		**IDW-03-3**
Sampling Date		**6/12/2009**
Matrix		**Water**
Dilution Factor		**1**
Units		**ug/L**
Compound	**CAS #**	
Zinc	7440-66-6	60 U

Qualifiers
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater. The concentration given is an approximate value.

Appendix
Table
IDW Soil Characterization Sampling
TCLP Results
Diamond Head RI/FS
Opereable Unit 2

Sample ID		IDW-01-3	TCLP
Lab Sample Number		A2845-01	limit
Sampling Date		5/21/2009	
Matrix		Soil	
Dilution Factor		5	
Units		mg/L	mg/L
Compound	CAS #		
Volatile Organic Compounds			
Dilution Factor		5	
Dichloroethene-1,1	75-35-4	0.0024 U	0.7
Dichloroethane-1,2	107-06-2	0.0024 U	0.5
Butanone-2 (methyl ethyl ketone)	78-93-3	0.0066 U	200
Benzene	71-43-2	0.0016 U	0.5
Carbon Tetrachloride	56-23-5	0.0031 U	0.5
Chlorobenzene	108-90-7	0.0024 U	100
Chloroform	67-66-3	0.0017 U	6
Tetrachloroethene	127-18-4	0.0014 U	0.7
Trichloroethene	79-01-6	0.0014 U	0.5
Vinyl Chloride	75-01-4	0.0017 U	0.2
Semivolatile Organic Compounds			
Dilution Factor		1	
Dichlorobenzene-1,4	106-46-7	0.002 U	7.5
Trichlorophenol-2,4,5	95-95-4	0.004 U	400
Trichlorophenol-2,4,6	88-06-2	0.0056 U	2
Dinitrotoluene-2,4	121-14-2	0.01 U	0.13
Cresol-o (Methylphenol-2)	95-48-7	0.0024 U	200
Methylphenols-3+4	65794-96-9	0.0038 U	200
Hexachlorobenzene	118-74-1	0.0018 U	0.13
Hexachlorobutadiene	87-68-3	0.0025 U	0.5
Hexachloroethane	67-72-1	0.0025 U	3
Nitrobenzene	98-95-3	0.0068 U	2
Pentachlorophenol	87-86-5	0.017 U	100
Pyridine	110-86-1	0.043 U	5
Pesticides			
Dilution Factor		1	
Chlordane	57-74-9	0.0031 U	0.03
Endrin	72-20-8	5.80E-05 U	0.02
BHC-gamma (Lindane)	58-89-9	5.50E-05 U	0.4
Heptachlor	76-44-8	6.90E-05 U	0.008
Heptachlor epoxide	1024-57-3	6.70E-05 U	NA
Methoxychlor	72-43-5	0.00052	10
Toxaphene	8001-35-2	0.0036 U	0.5
Herbicides			
Dilution Factor		1	
2,4,5-TP (SILVEX)	93-72-1	0.00151 U	1
2,4-D	94-75-7	0.00348 U	10

Appendix
Table
IDW Soil Characterization Sampling
TCLP Results
Diamond Head RI/FS
Opereable Unit 2

Sample ID		**IDW-01-3**	**TCLP**
Lab Sample Number		**A2845-01**	**limit**
Sampling Date		**5/21/2009**	
Matrix		**Soil**	
Dilution Factor		**5**	
Units		**mg/L**	**mg/L**
Compound	**CAS #**		
Metals			
Dilution Factor		1	
Arsenic	7440-38-2	0.042 U	5
Barium	7440-39-3	0.798	100
Cadmium	7440-43-9	0.005 U	1
Chromium	7440-47-3	0.011 U	5
Lead	7439-92-1	0.251	5
Mercury	7439-97-6	0.00091 U	0.2
Selenium	7782-49-2	0.0683 J	1
Silver	7440-22-4	0.015 U	5

Qualifiers
U - The compound was not detected at the indicated concentration.
J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater. The concentration given is an approximate value.

Appendix F
Survey Information

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Table Survey Information for OU2 Sampling Locations

Appendix
Survey Information for
OU2 Sampling Locations
Diamond Head RI/FS
Operable Unit 2

OU2 Offsite Soil Borings

Station ID	Northing	Easting	Elevation (ft above msl)
SB-39	698388.7320	594709.4549	10.8
SB-40	698408.8103	594806.8775	10.6
SB-41	698194.3145	594706.1165	27.5
SB-42	698209.7683	594782.9806	27.9
SB-43	698227.3988	594888.2287	24.8
SB-44	697926.1115	594642.2206	9.9
SB-45	697958.8414	594749.9519	14.6
SB-46	697997.5411	594978.5920	23.3
SB-47	698012.2238	595142.6299	27.5
SB-48	697748.0643	594626.8612	13.7
SB-49	697849.2843	594707.5766	15.5
SB-50	697856.9551	594929.9037	21.7
SB-51	697897.9816	595130.0220	31.6

OU2 NJDOT Soil Berm Borings

Station ID	Northing	Easting	Elevation (ft above msl)
SB-52	697371.7665	594130.3794	20.7
SB-53	697435.9083	594186.0536	21.4
SB-54	697489.3294	594266.4207	21.5
SB-55	697575.9289	594309.1985	23.8
SB-56	697888.5535	594351.7406	24.5
SB-57	697974.8548	594329.0837	23.4

OU2 Offsite Sediment Sampling Locations

Station ID	Northing	Easting	Elevation (ft above msl)
SD-37	696792.4292	593365.4655	0.4
SD-38	696781.7872	593005.6379	-0.2

OU2 Offsite Monitoring Wells

Station ID	Northing	Easting	Ground Elevation (ft above msl)	Inner Casing Elevation (ft above msl)	Outer Casing Elevation (ft above msl)
MW-18S	698332.3621	594381.4436	6.8	9.94	10.14
MW-19S	698354.0105	594937.9254	26.7	29.59	29.82
MW-20S	698117.4176	595048.1118	24.3	27.16	27.52
MW-21S	698519.3645	594116.8035	6.8	6.41	6.87
MW-23S	697471.1961	593385.3629	7.4	6.64	7.38
MW-24S	697011.7357	593393.0424	6.2	5.62	6.19
MW-25S	696730.5968	593584.6747	15.2	14.76	15.25
MW-26S	697380.5339	594649.8385	10.1	9.58	10.01

Notes:
Horizontal Datum is on the New Jersey State Plane Coordinate System (NAD 1983 DATUM).
Vertical Datum is on the New Jersey State Plane Coordinate System (NAVD 1988).
All OU2 GPS Coordinates were collected in U.S. Survey Feet.
All GPS Measurements Presented in this table were collected by Vargo Associates on June 2 & June 4, 2009.

Appendix G
Data Quality Evaluation

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Data Quality Evaluation

Table 1 List of Rejected Results

Table 2 Stations of Interest Based on QL and MDL Versus Standard / Criteria Values Soil

Table 3 Stations of Interest Based on QL and MDL Versus Standard / Criteria Values Sediments

Table 4 Stations of Interest Based on QL and MDL Versus Standard / Criteria Values Groundwater

Appendix 7 Data Quality Evaluation

1 Data Quality Assessment

This data quality evaluation (DQE) assesses the effect of the overall analytical process on the "availability" of the analytical data. "Availability" in this context refers to whether results can be used by the project team based on their analytical soundness. If a result is analytically sound, it is available for use for evaluating the potential releases, nature and extent of contamination, and estimating potentially associated human health and ecological risks. However, a particular result or group of results may not be "usable" for these purposes if other conditions apply. For example, if there were a hypothetical site where a trichloroethylene (TCE) spill had occurred and the TCE data for many or all of the samples were rejected, the data may not be usable for making site-specific determinations even if all the non-TCE data were analytically sound and available for use by the project team. In order to avoid confusion of terms, this data quality evaluation differentiates the "availability" of results from "usability" of results. "Available" results are analytically sound and available for use by the project team to make decisions, even if they are not usable for a particular purpose.

The three major categories of data evaluation are laboratory performance, field collection performance (i.e. blank contamination), and matrix interferences. Evaluation of laboratory performance is a check for compliance with the method requirements; in other words, a check of whether the laboratory analyzed the samples within the limits of the analytical method. Additionally, an independent USEPA data validator conducted a review of the laboratory data to assess whether the analytical methods were within required control limits at the time of analysis. Evaluation of potential matrix interferences involves the review of several areas of results, including but not limited to surrogate spike recoveries, matrix spike recoveries, and duplicate sample results. Evaluation of field collection performance, such as blank contamination and field duplicates, involves the review of field quality control (QC) and the determination of their effect on the sample results.

The data evaluation and validation is a multi-tiered approach. The process begins with an internal laboratory review, continues with an independent review by an USEPA data validator, and ends with an overall review by the contractor project chemistry team. While only the data validator is allowed to apply qualifiers to the data, the process allows for data quality to be thoroughly evaluated.

1.1 Laboratory Internal Quality Control Review

Prior to releasing the analytical data, the laboratory reviewed both the sample and QC data to verify sample identity, instrument calibration, quantitation limits, dilution factors, numerical computations, accuracy of transcriptions, and chemical interpretations. In addition, the QC data were tabulated and the results reviewed to ascertain whether they were within the contract-required limits for accuracy and precision. Any non-conforming data were discussed in the data package cover letter and case narrative. The case narrative

was then reviewed by the data validator. If necessary, qualifiers were applied based on this information.

1.2 Data Validation

An independent USEPA data validator reviewed all data packages using the validation criteria defined by USEPA Contract Laboratory Program (CLP). This guidance was applied to the data to help the validator create a thorough and systematic approach to the validation process. As stated above, the data validation process was independent and separate from the laboratory's internal review. The process was specifically focused on the effects of the laboratory's performance and sample matrix on the analytical results. Areas of review consisted of holding time compliance, surrogate recovery accuracy, matrix spiked sample precision and accuracy, blank contamination, initial and continuing calibration accuracy and precision, laboratory control sample accuracy, internal standard response and retention time accuracy, instrument tune criteria accuracy, and duplicate sample precision (laboratory and field duplicates). Additionally, the analytical spectrum and raw data output were reviewed and laboratory results selected by the validator were recalculated from the raw data to verify final laboratory quantitation.

When multiple analyses were performed, the data validator selected a single result in order to prevent redundancy. Such results were marked "yes" for reportable_result in the electronic data deliverable. These results should be used for reporting purposes. However, sometimes both results were available (i.e. not R-qualified), sometimes neither result was available (i.e. both were R-qualified), and sometimes one or the other result was available (i.e. one was R-qualified but not both). It should be understood that the application of an R-qualifier indicates that a result is not available for reporting purposes as opposed to the assignment of "no" to reportable_result in the electronic data deliverable. There may be results marked "no" for reportable_result that are available and usable for reporting purposes, but are not necessary to report due to redundancy. There may also be results marked "yes' for reportable_result that are not available for reporting purposes because they were rejected by the data validator. They are displayed, along with their qualifier, in order to prevent showing a missing data point. Therefore, the rejection of a result may have no impact on the availability or usability of data when another available and usable data point exists for the same sample identification (ID) and analyte. For this reason, results marked "no" for reportable_result are not considered in qualification statistics because only results for which only R-qualified values exist count against data availability.

Qualification of data is not an unusual occurrence. To define a laboratory QC exceedance and when a laboratory QC exceedance occurs, the laboratory refers to its in-house Standard Operating Procedures (SOPs). The SOPs are based on program requirements, the requested USEPA CLP analytical method, and accumulated laboratory experience. When a laboratory QC exceedance occurs, the situation may be acceptable or it may require further action by the laboratory, such as application of a laboratory qualifier or reanalysis of the sample. The data validator uses a separate set of QC criteria, based on guidance from the USEPA region that applies to the samples. A laboratory QC exceedance may not constitute a data validation exceedance and a data validation exceedance may not constitute a laboratory QC exceedance. Data validation criteria exceedances may result in the qualification of or rejection of data, as deemed appropriate by the third-party data validator.

The data validator examines each data point and determines any effects that QC exceedances have had. Most often, these effects dictate that the result or quantitation limit should be considered estimated, but is still available for use. The J-qualification, UJ-qualification, NJ-qualification, and U-qualification of results are common occurrences and have no adverse effect on the availability of that result to the project team for making decisions. J-qualified and NJ-qualified results are available, at the reported result, for use as detects as long as they are considered "estimated" by the project team. Human health risk assessment guidance suggests that these qualifiers "indicate uncertainty in the reported concentration of the chemical, but not in its assigned identity. Therefore, these data can be used just as positive data with no qualifiers or codes." In addition, one should use "J-qualified concentrations the same way as positive data that do not have this qualifier" (Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual. (Part A) EPA/540/1-89/002. Office of Emergency and Remedial Response, U.S. Environmental Protection Agency, Washington, D.C. 1989). U-qualified and UJ-qualified results are available, at the reported quantitation limit, for use as non-detects as long as they are considered "non-detect," "attributable to blank contamination," or "non-detect, estimated quantitation limit," as appropriate.

In extreme cases, a result is rejected and deemed to be unusable. "Unusable" in this instance is defined as a result that is not analytically sound and is not generally considered available for use by the project team. In some cases, the project team may still decide to use a rejected result. An example of this occurrence would be if a result is rejected because it is biased extremely high, yet it is still below the project action limits. A conservative decision may be made to consider this result a non-exceedance, even if its concentration was rejected. For that reason, it is important to examine why a result was rejected. For the most part, however, rejected results are not usable, and the R-qualifier is the only qualifier that has an adverse effect on the availability of data.

In large data sets, rejected results are often inconsequential because there are sufficient non-rejected data available to the project team. If there are enough non-rejected data or the project team is able to infer results from adjacent sampling locations or there is other site-specific information that can provide additional lines of evidence, it may not be necessary to know the concentrations of some rejected constituents. It may also not be necessary to prove a constituent's absence if there are sufficient additional lines of evidence.

The following data validation qualifiers were applied to one or more analytical results:

- **U** - Not detected. The sample was analyzed for this parameter, but it was not detected at greater than the reported quantitation limit. The data validator may also apply this qualifier to indicate that a concentration is attributed to blank contamination. In this instance, the qualifier may indicate "not detected at significantly greater than that in an associated blank". The U-qualifier does not necessarily indicate a quality control problem.
- **UJ** - Not detected, quantitation limit is estimated. Sample was analyzed for this parameter, but it was not detected above the reported quantitation limit. The quantitation limit for this parameter is estimated due to a quality control issue.
- **J** - Concentration estimated. The parameter was positively identified and the associated numerical value is the approximate concentration of the parameter in the sample.

- **NJ** - Qualitative identification questionable due to poor resolution. Presumptively present at approximate quantity.
- **R** - Rejected. The result was rejected due to a quality control issue. The presence or absence of the parameter cannot be verified and the result generally is not usable as detected or not detected.
- **[null]** - Detected. Qualification was not warranted.

2 Impact of Data Quality on Project Data Quality Objectives and Data Usability

The laboratory or laboratories analyzed the samples in accordance with USEPA CLP methods. The data packages were reviewed by an independent USEPA data validator using USEPA guidance.

The laboratory utilized various qualifiers to represent "below reporting limit," "non-detect," and "detected" among others that indicate a laboratory quality assurance / quality control (QA/QC) exceedance. The data validator utilized J-qualifiers, NJ-qualifiers, UJ-qualifiers, U-qualifiers, and R-qualifiers to represent "estimated," "presumptively present at approximate quantity," "non-detect, estimated quantitation limit," "non-detect" or "attributable to blank contamination," and "rejected," respectively.

The J- and UJ-qualifiers indicate that some results are estimated. These qualifiers indicate that data are available for use as detects and non-detects, respectively. These qualifiers do not necessarily indicate a problem that adversely affects the availability of data. For example, J-qualifiers are often applied simply because results are below the quantitation limit.

Region II data validation guidance mandates the use of J- and UJ-qualifiers when QA/QC exceedances dictate their necessity. If the direction of bias is known, it is not implied by the J- or UJ-qualifier. If a result is attributable to blank contamination, it is U-qualified and is no longer distinguishable from results that are simply non-detect. This supports the practice that J-qualified results, while estimated, are available for use as detects at their qualified concentration and U- and UJ-qualifiers are available for use as non-detects at their qualified quantitation limit. In general, J-, UJ-, and U-qualified results are available for use as qualified for evaluating potential releases, the nature and extent of contamination, and estimating potentially associated human health and ecological risks.

It is a common occurrence for achieved quantitation limits to be greater than project action limits or for quantitation limits to be elevated to greater than what was expected or requested at the time of planning activities. In many cases, project action limits (PAL) are simply very low or the laboratory was forced by the analytical method to raise the quantitation limit (QL) to a Contract Required QL (CRQL). These instances of QL v. PAL exceedance are acknowledged and detailed by Worksheet 15 of the project-specific Quality Assurance Project Plan (UFP-QAPP). In other cases, the laboratory is forced to modify the analytical method or select another analytical method in order to accommodate a difficult matrix or a free product. In these instances, the analytical data are often used to identify the matrix as opposed to determining whether or not a groundwater, soil, or sediment criterion is exceeded.

In the instance where non-detect quantitation limits are greater than project action limits, the results are available for use as non-detects, but their use adds uncertainty to the conclusions drawn. There are a variety of potentially unavoidable reasons why the quantitation limits of non-detect results may exceed project action limits:

- If a criterion (project action limit) is very low, current instrumentation technology may not be able to achieve a QL less than the project action limit.
- The quantitation limit may have been established at a time when the criterion (project action limit) was higher (less stringent), but the reporting is being done against new (more stringent) criteria. This can also occur when unanticipated project action limits emerge after the project-planning stage.
- If the laboratory utilizes an analytical method with contract-required quantitation limits (CRQLs) or contract-required detection limits (CRDLs), the analytical method requirements may force the laboratory to report the quantitation limit at a level higher than the project action limit.
- If a target compound or analyte is present at an elevated level, the laboratory will dilute the entire sample in order to report that concentration within the instrument's linear calibration range. It may not be possible to analyze the sample at a lesser dilution if the target compound's high concentration is likely to damage the instrument or saturate the detector. The high concentration of a non-target compound or analyte may also necessitate initial dilution for the same reason.
- If matrix effects mask low concentrations, the laboratory may be forced to elevate their quantitation limits to demonstrate the fact that low concentrations cannot be detected.
- If matrix effects are particularly strong, the laboratory may be forced to analyze the sample at an initial dilution in an attempt to dilute the matrix effects.
- If historical concentrations warrant, the laboratory detects an odor, or the field team designates a sample as "expected high concentration," the laboratory may pre-screen the sample and initially dilute it. Such dilutions raise the quantitation limit of nondetect compounds and may raise the quantitation limit to greater than the project action limit.
- If the sample appearance indicates possible high concentrations, the laboratory may be forced to analyze the sample at a concentration range different from what is requested. For example, if a sample is designated as "groundwater," but is actually an emulsion or sludge, the laboratory may be forced to perform a waste dilution and analyze the sample using the "medium soil" instead of the "trace water" concentration range.
- If the field team cannot provide the full sample volume, the laboratory may be forced to dilute the sample by adding water until the minimum volume is achieved.
- If a sample is characterized by high percent moisture, the reporting limits will be raised such that the concentrations and quantitation limits are reported on a dry-weight basis.

2.1 PARCC Considerations

2.1.1 Precision

Precision is defined as the agreement between duplicate results, and was assessed by comparing duplicate matrix spike recoveries, laboratory replicates, and field duplicate sample results.

2.1.2 Accuracy

Accuracy is a measure of the agreement between an experimental determination and the true value of the parameter being measured. For organic analyses, each sample was spiked with surrogate compounds; and for organic and inorganic analyses, an MS/MSD and LCS were spiked with a known parameter concentration before preparation. Surrogates and MS/MSD provide a measure of the matrix effects on the analytical accuracy. LCS demonstrates accuracy of the method and the laboratory's ability to meet the method criteria.

2.1.3 Representativeness

Representativeness is a qualitative measure of the degree to which sample data accurately and precisely represent a characteristic environmental condition (in this case, nature and extent of contamination). Representativeness is a subjective parameter and is used to evaluate the efficacy of the sample planning design. In terms of data quality, representativeness was assured because the sampling team following approved standard operating procedures for sample collection and handling, and the laboratory followed approved standard operating procedures for sample handling, preparation, and analysis.

2.1.4 Completeness

For purposes of this DQE, completeness will be defined as the percentage of measurements that are judged to be valid; validity being defined by the Data Quality Objectives (DQOs). Therefore, completeness will be calculated as the number of analytically-sound results that are available for use compared to the total number of measurements made. *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA 540/R-99/008, October, 1999); *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA 540-R-04-004, October, 2004); *SOP No. HW-2, Evaluation of Metals Data for the CLP Program* (Rev. 13, September, 2006); *SOP No. HW-33, Data Validation SOP for Organic Analysis of Low/Medium Concentration VOCs under SOW SOM01.1* (Rev. 1, August, 2007); *SOP No. HW-35, Data Validation SOP for Organic Analysis of Low/Medium Concentration SVOCs under SOW SOM01.1* (Rev. 1, August, 2007); *SOP HW-36, Data Validation SOP for Organic Analysis of Low/Medium Concentration Pesticides under SOW SOM01.1* (Rev. 1, August, 2007); and *SOP HW-37, Data Validation SOP for Organic Analysis of Low/Medium Concentration Aroclors under SOW SOM01.1* (Rev. 1, August, 2007) designate all results except those R-qualified as "rejected" to be available for use as analytically-sound results. The R-qualifier is the only qualifier that negatively affects a data point's availability. Completeness is provided for each analysis group for each matrix. Per the *Operable Unit 2 Remedial Investigation Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) for the Diamond Head Oil Superfund Site; Kearny, New Jersey* (CH2M HILL, April, 2009) under which the data from this site were collected, this project has a 90 percent completeness goal where the measurement performance criteria is defined as ">90% of results not rejected by data validator".

2.1.5 Comparability

Comparability is a qualitative measure designed to express the confidence with which one data set may be compared to another. Factors that affect comparability are sample collection and handling techniques, sample matrix, and analytical methods. In this case, because

approved standard operating procedures were used for sample collection and handling, common sample matrices were evaluated (groundwater, subsurface soil, sediment, and surface soil), and USEPA CLP methods were utilized, the data user may express confidence in the fact that this data set is comparable to others of acceptable data quality. In addition, comparability is controlled by the other PARCC parameters because data sets can be compared with confidence only when precision and accuracy are known. Except in the case of rejected data, precision and accuracy were demonstrated to be acceptable, and the data user may be confident that this data set is comparable to others of high data quality.

3. Soil Data Quality Evaluation

The purpose of this data quality evaluation is to summarize the findings of the data validation and any effects it may have on the availability of the data from the OU2 soil sampling event at Diamond Head as well as to provide an assessment of data usability.

3.1 Volatile Organic Compounds

Volatiles were analyzed by USEPA CLP SOM01.2 "Low Soil" and "Medium Soil". Excluding field quality control samples, 3120 distinct data points were generated. When rejected results are considered, the volatiles data set is 84.33 percent complete (2631 of 3120 volatiles results are available for use). The validation process resulted in the following qualifiers for results in the volatiles fraction:

- 69.17 percent (2158 of 3120 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 3.1.1, below)
- 15.67 percent (489 of 3120 results) were R-qualified as "rejected" (see section 3.1.2, below)
- 9.52 percent (297 of 3120 results) were J-qualified as "estimated" (see section 3.1.3, below)
- 1.70 percent (53 of 3120 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 3.1.4, below)

3.1.1 U-qualification

A total of 2139 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of 19 results (eight for acetone, two for chloroform, seven for 2-butanone (all common laboratory contaminants), one for 1,1-dichloroethene and one for methylcyclohexane) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "J", "JB", or [null]. This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

3.1.2 R-qualification

A total of 489 results were R-qualified as "rejected" by the validator and the laboratory qualifier was "U" (all 489 results). This is indicative of a potential extremely low bias and may be indicative of an inability to detect a compound, if present, in the sample. Review of

the validation narratives revealed that Volatile Organic Analyses (VOA) results were rejected due to calibration, relative response factors out of specification, calibration relative standard deviation and percent difference out of specification, and internal standard area counts out of specification. Of particular note was contractual non-compliance for 1,4-Dioxane (and 1,4-Dioxane-d8, a deuterated monitoring compound). The average relative response factor for this compound was below the contractual criteria in the initial calibration and the continuing response factor was below the contractual criteria in all of the opening and closing CCV calibrations. The R-qualified VOA results, listed in Table 1, are not available for use to the project team. The 90% completeness goal was not met for VOA results because only 84.33% of results (2631 of 3120 volatiles results) are available for use to the project team.

3.1.3 J-qualification

A total of 297 results were J-qualified as "estimated" by the validator and the laboratory qualifier did not contain "U" for all but one record. For this one record, chloroform in SB-48-0.5-1.0-3, the data validator changed the detect status from nondetect to detect. For 227 results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For 69 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

3.1.4 UJ-qualification

A total of 53 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in 46 records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the seven results (J- or JB-qualified by the laboratory) where the laboratory qualifier did not contain "U", the data validator changed the detect status from detect to nondetect. This is typically a result of blank contamination (see section 3.1.1, above) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

3.1.5 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to IGWSCC and NRDCSCC2008 project action limits. Of 2211 U- or UJ-qualified results, 975 quantitation limits (QLs) exceeded one or more of IGWSCC and NRDCSCC2008. For ease of reference, the standards / criteria to which values are compared are referred to as Project Action Limits (PAL) throughout the remainder of this section; the term is not meant to imply that the standard / criteria used in the comparison will constitute the selected action level. Of the 975 QL v. PAL exceedances, only 65 correspond to a NRDCSCC2008 exceedance. Of the 975 QL v. PAL exceedances, 670 were the result of a medium concentration analysis (medium soil VOCs) as opposed to low-concentration, which was anticipated. Of the 975 QL v. PAL exceedances, 93 results were associated with a dilution factor greater than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 975 QL v. PAL exceedances, all 975 QLs exceed IGWSCC. Of the 975 QL v. IGWSCC exceedances, there are 82 instances where a QL exceeds IGWSCC and there are no detected

IGWSCC exceedances for VOCs at the same station. This occurs at MW-20S and SB-53. These stations are of interest because the data suggest that no action should be taken for VOCs based on IGWSCC, but there are instances where the achieved laboratory QLs are greater than the corresponding IGWSCC criteria. There is increased uncertainty at these stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. At station SB-53, the QL v. PAL exceedances are associated with method detection limits (MDLs) that are still less than the PAL. For these data points, the laboratory would likely still detect the contaminant, if present in the sample, at or greater than the PAL. MDLs were not evaluated against PALs for MW-20S because MDLs were not provided for VOCs at that station. Please refer to Table 2

Of the 975 QL v. PAL exceedances, only 65 QLs exceed NRDCSCC2008. Of the 65 QL v. NRDCSCC2008 exceedances, there are 58 instances where a QL exceeds NRDCSCC2008 and there are no detected NRDCSCC2008 exceedances for VOCs at the same station. This occurs at MW-18S, MW-19S, MW-20S, SB-39, SB-40, SB-41, SB-42, SB-43, SB-44, SB-46, SB-47, SB-48, SB-50, SB-51, SB-52, and SB-56. It should be noted that this applies only to 1,2-dibromo-3-chloropropane and 1,2-dibromoethane. These stations are of interest because the data suggest that no action should be taken for VOCs based on NRDCSCC2008, but there are instances where the achieved laboratory QLs are greater than the corresponding NRDCSCC2008 criteria. There is increased uncertainty at these stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. At stations SB-52 and SB-56, the QL v. PAL exceedances are associated with MDLs that are still less than the PAL. For these data points, the laboratory would likely still detect the contaminant, if present in the sample, at or greater than the PAL. MDLs were not evaluated against PALs for the remaining 14 stations because MDLs were not provided for VOCs at those stations. Please refer to Table 2.

3.2 Semivolatile Organic Compounds

Semivolatiles were analyzed by USEPA CLP SOM01.2 "Low Soil" and "Medium Soil". Excluding field quality control samples, 4154 distinct data points were generated. When rejected results are considered, the semivolatiles data set is 99.81 percent complete (4146 of 4154 semivolatiles results are available for use). The validation process resulted in the following qualifiers for results in the semivolatiles fraction:

- 68.08 percent (2828 of 4154 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 3.2.1, below)
- 14.47 percent (601 of 4154 results) were J-qualified as "estimated" (see section 3.2.2, below)
- 2.12 percent (88 of 4154 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 3.2.3, below)
- 0.19 percent (8 of 4154 results) were R-qualified as "rejected" (see section 3.2.4, below)

3.2.1 U-qualification

A total of 2822 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of six

results (all for bis(2-ethylhexyl)phthalate, a common laboratory contaminant) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "J" or "JB". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

3.2.2 J-qualification

A total of 601 results were J-qualified as "estimated" by the validator. For 563 results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For the remaining 36 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

3.2.3 UJ-qualification

A total of 88 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in each record. The data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

3.2.4 R-qualification

Eight results were R-qualified as "rejected" by the validator and the laboratory qualifier was "U" (all eight results). This is indicative of a potential extremely low bias and may be indicative of an inability to detect a compound, if present, in the sample. Rejection included dibenzo(a,h)anthracene in one sample, hexachlorocyclopentadiene in three samples, and di-n-octylphthalate in four samples. Review of the validation narratives revealed that semi-VOA (SVOA) results were rejected due to internal standard area counts out of specification. The R-qualified SVOA results, listed in Table 1, are not available for use to the project team.

3.2.5 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to IGWSCC and NRDCSCC2008 RDCSCC2008 project action limits. Of 2916 U- or UJ-qualified results, 941 quantitation limits exceeded one or more of IGWSCC and NRDCSCC2008. Of the 941 QL v. PAL exceedances, only 144 correspond to a NRDCSCC2008 exceedance. Of the 980 QL v. PAL exceedances, 88 were the result of a medium concentration analysis (medium soil SVOCs) as opposed to low-concentration, which was anticipated. Of the 980 QL v. PAL exceedances, 730 results were associated with a dilution factor greater than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 941 QL v. PAL exceedances, 923 QLs exceed IGWSCC. Of the 923 QL v. IGWSCC exceedances, there are three instances where a QL exceeds IGWSCC and there are no detected IGWSCC exceedances for SVOCs at the same station. This occurs at SB-53. This station is of interest because the data suggest that no action should be taken for SVOCs based on IGWSCC, but there are instances where the achieved laboratory QLs are greater than the corresponding IGWSCC criteria. There is increased uncertainty at this station because the laboratory may not be able to practically quantitate the concentration of a

contaminant if it is present in the sample at or greater than the PAL. At this station (SB-53), the QL v. PAL exceedances are associated with MDLs that are still less than the PAL. For these data points, the laboratory would likely still detect the contaminant, if present in the sample, at or greater than the PAL. Please refer to Table 2.

Of the 941 QL v. PAL exceedances, only 144 exceed NRDCSCC2008. Of the 144 QL v. NRDCSCC2008 exceedances, there are no instances where a QL exceeds NRDCSCC2008 and there are no detected NRDCSCC2008 exceedances for SVOCs at the same station. This is important to note because the data user must acknowledge that there are instances where the achieved laboratory QLs are greater than the corresponding NRDCSCC2008 criteria and the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. However, the data still suggest that an action should be taken based on one or more SVOC detect NRDCSCC2008 exceedances at the same station. Please refer to Table 2.

3.3 Pesticides

Pesticides were analyzed by USEPA CLP SOM01.2 "Soil". Excluding field quality control samples, 1269 distinct data points were generated. When rejected results are considered, the pesticides data set is 75.81 percent complete (962 of 1269 pesticides results are available for use). The validation process resulted in the following qualifiers for results in the pesticides fraction:

- 36.17 percent (459 of 1269 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 3.3.1, below)
- 24.19 percent (307 of 1269 results) were R-qualified as "rejected" (see section 3.32, below)
- 13.16 percent (167 of 1269 results) were J-qualified as "estimated" (see section 3.3.3, below)
- 9.85 percent (125 of 1269 results) were NJ-qualified as "presumptively present at approximate quantity" (see section 3.3.4, below)
- 5.75 percent (73 of 1269 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 3.3.5, below)

3.3.1 U-qualification

A total of 459 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U" for 352 of them. This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of 107 results (four for aldrin, five for alpha-BHC, seven for beta-BHC, six for delta-BHC, five for gamma-BHC (lindane), four for alpha-chlordane, six for beta-chlordane, two for 4,4'-DDE, one for 4,4'-DDT, nine for dieldrin, eight for Endosulfan I, 10 for Endosulfan II, 11 for Endosulfan sulfate, five for endrin, five for endrin aldehyde, two for endrin ketone, two for heptachlor, eight for heptachlor epoxide, and six for methoxychlor) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "BP", "EP", or "JP". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

3.3.2 R-qualification

A total of 307 results were R-qualified as "rejected" by the validator. These consist of 25 rejected nondetects (one aldrin result, four delta-BHC results, three gamma-BHC (lindane) results, three alpha-chlordane results, one 4,4'-DDE result, one dieldrin result, one Endosulfan I result, one Endosulfan II result, one Endosulfan sulfate result, one endrin result, one endrin aldehyde result, one endrin ketone result, one methoxychlor result, and five toxaphene results). This is indicative of a potential extremely low bias and may be indicative of an inability to detect a compound, if present, in the sample. The remaining 282 consist of rejected detects (18 aldrin results, seven alpha-BHC results, 25 beta-BHC results, 11 gamma-BHC (lindane) results, 16 alpha-chlordane results, 43 beta-chlordane results, 10 4,4'-DDD results, nine 4,4'-DDE results, four 4,4'-DDT results, 10 dieldrin results, 14 Endosulfan I results, 16 Endosulfan II results, six Endosulfan sulfate results, nine endrin results, 10 endrin aldehyde results, 14 endrin ketone results, 15 heptachlor results, 34 heptachlor epoxide results, and 11 methoxychlor results). For comparison purposes, pesticides were analyzed in 61 samples; therefore there are available beta-chlordane results for 18 samples.

Review of the validation narratives revealed that pesticide nondetects were rejected due to DDT and endrin percent breakdown criteria and low spiked surrogate recovery. These R-qualified PEST results, listed in Table 1, are generally not available to the project team. The rejected pesticide detects, on the other hand, were qualified as such due to extremely poor precision evidenced by poor dual-column reproducibility (relative percent difference exceeding 100% between columns). Because of such poor precision, and because the direction of bias (if any) is not known, these rejected results are also not available to the project team. The 90% completeness goal was not met for PEST results because only 75.81% of results (962 of 1269 pesticides results) are available for use to the project team.

3.3.3 J-qualification

A total of 167 results were J-qualified as "estimated" by the validator and for 35 results, the laboratory qualifier was also "J" or "JP". Thus, the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For 132 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

3.3.4 NJ-qualification

A total of 125 results were NJ-qualified as "presumptively present at approximate quantity" by the validator. For each of the affected records, the laboratory qualifier contained "P" and thus this issue likely originates from precision exceedances. The NJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as detects at the reported quantitation limit as long as the data user considers the results to be "presumptively present at approximate quantity".

3.3.5 UJ-qualification

A total of 73 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in 10 records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the remaining 63 results (EP-, EPB-, or J-qualified by the laboratory) where the laboratory qualifier did not contain "U", the data validator changed the detect

status from detect to nondetect. This is typically a result of blank contamination (see section 3.3.1, above) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

3.3.6 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to IGWSCC and NRDCSCC2008 project action limits. Of 532 U- or UJ-qualified results, 112 quantitation limits exceeded one or more of IGWSCC and NRDCSCC2008. Of the 112 QL v. PAL exceedances, none correspond to a NRDCSCC2008 exceedance. Of the 112 QL v. PAL exceedances, nine results were associated with a dilution factor greater than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 112 QL v. PAL exceedances, all 112 QLs exceed IGWSCC. Of the 112 QL v. IGWSCC exceedances, there are no instances where a QL exceeds IGWSCC and there are no detected IGWSCC exceedances for pesticides at the same station. This is important to note because the data user must acknowledge that there are instances where the achieved laboratory QLs are greater than the corresponding IGWSCC criteria and the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. However, the data still suggest that an action should be taken based on one or more pesticides detect IGWSCC exceedances at the same station. Please refer to Table 2.

Of the 112 QL v. PAL exceedances, no pesticides QLs exceed NRDCSCC2008. Please refer to Table 2.

3.4 PCBs (Aroclors)

PCBs were analyzed by USEPA CLP SOM01.2 "Soil". Excluding field quality control samples, 549 distinct data points were generated. When rejected results are considered, the PCB data set is 99.27 percent complete (545 of 549 PCB results are available for use). The validation process resulted in the following qualifiers for results in the PCB fraction:

- 57.74 percent (317 of 549 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 3.4.1, below)
- 17.67 percent (97 of 549 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 3.4.2, below)
- 9.29 percent (51 of 549 results) were J-qualified as "estimated" (see section 3.4.3, below)
- 0.73 percent (4 of 549 results) were R-qualified as "rejected" (see section 3.4.4, below)
- 0.55 percent (3 of 549 results) were NJ-qualified as "presumptively present at approximate quantity" (see section 3.4.5, below)

3.4.1 U-qualification

A total of 315 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. Two results (Aroclor-1242 in SB-47-0.5-1.5-3 and Aroclor-1254 in MW-20S-15.0-16.0-3) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "JP". This does not affect the availability of results because these results are

available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

3.4.2 UJ-qualification

A total of 97 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U". For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

3.4.3 J-qualification

A total of 51 results were J-qualified as "estimated" by the validator and for eight results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not necessarily indicative of a QA/QC problem. For the remaining 43 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

3.4.4 R-qualification

Four results, consisting of Aroclor-1242 in SB-52-16.3-17.3-3, Aroclor-1254 in D-3-05-14-09-05 and MW-20S-26.0-27.0-3, and Aroclor-1260 in SB-56-6 4-7.4-3, were R-qualified as "rejected" by the validator. These were detected Aroclor results that were affected by a serious QA/QC deficiency and thus not available for use to the project team. Review of the validation narratives revealed that PCB results were rejected due to relative percent difference between column results exceeding 100% (poor dual-column reproducibility). The R-qualified PCB results, listed in Table 1, are not available for use to the project team because of poor precision.

3.4.5 NJ-qualification

Three results were NJ-qualified as "presumptively present at approximate quantity" by the validator. For each of the affected records, the laboratory qualifier contained "P" and thus this issue likely originates from precision exceedances. The NJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as detects at the reported quantitation limit as long as the data user considers the results to be "presumptively present at approximate quantity".

3.4.6 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to IGWSCC and NRDCSCC2008 project action limits. Of 414 U- or UJ-qualified results, eight quantitation limits exceeded one or more of IGWSCC and NRDCSCC2008. Of the eight QL v. PAL exceedances, all eight correspond to a NRDCSCC2008 exceedance. Of the eight QL v. PAL exceedances, all eight results were associated with a dilution factor greater than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the eight QL v. PAL exceedances, no PCB QLs exceed IGWSCC. Please refer to Table 2.

Of the eight QL v. PAL exceedances, all eight QLs exceed NRDCSCC2008. Of the eight QL v. NRDCSCC2008 exceedances, there are no instances where a QL exceeds NRDCSCC2008

and there are no detected NRDCSCC2008 exceedances for PCBs at the same station. This is important to note because the data user must acknowledge that there are instances where the achieved laboratory QLs are greater than the corresponding NRDCSCC2008 criteria and the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. However, the data still suggest that an action should be taken based on one or more PCB detect NRDCSCC2008 exceedances at the same station. Please refer to Table 2.

3.5 Metals

Metals, including mercury, were analyzed by USEPA CLP ILM05.4. Excluding field quality control samples, 1403 distinct data points were generated. When rejected results are considered, the metals data set is 99.50 percent complete (1396 of 1403 metals results are available for use). The validation process resulted in the following qualifiers for results in the metals fraction:

- 31.58 percent (443 of 1403 results) were J-qualified as "estimated" (see section 3.5.1, below)
- 8.34 percent (117 of 1403 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 3.5.2, below)
- 1.28 percent (18 of 1403 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 3.5.3, below)
- 0.50 percent (7 of 1403 results) were R-qualified as "rejected" (see section 3.5.4, below)

3.5.1 J-qualification

A total of 443 results were J-qualified as "estimated" by the validator and for 277 results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier. This is not indicative of a QA/QC problem. For 166 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

3.5.2 U-qualification

A total of 62 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of 52 laboratory J-qualified results (three for antimony, five for barium, three for beryllium, two for cadmium, one for calcium, 21 for cobalt, and 17 for thallium) were U-qualified as "not detected at significantly greater than that in an associated blank". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

3.5.3 UJ-qualification

A total of 18 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in four records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the remaining 14 results (J-qualified by the laboratory) where the

laboratory qualifier did not contain "U", the data validator changed the detect status from detect to nondetect. This is typically a result of blank contamination (see section 3.5.2, above) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

3.5.4 R-qualification

Seven results, consisting of chromium, copper, mercury, and zinc in D-3-05-06-09-01 and chromium, copper, and zinc in SB-44-0.5-1.0-3, were R-qualified as "rejected" by the validator and the laboratory qualifier was [null] (all seven results). Review of the validation narratives revealed that metals results were rejected due to relative percent difference exceedances (greater than 35%) between parent and field duplicate samples when the analyte concentration is greater than 5X the CRQL (4X for mercury). The R-qualified metals results, listed in Table 1, are not available for use to the project team because of poor precision.

3.5.5 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to IGWSCC and NRDCSCC2008 project action limits. Of 135 U- or UJ-qualified results, 52 quantitation limits exceeded one or more of IGWSCC, NRDCSCC2008, and RDCSCC2008. Of the 52 QL v. PAL exceedances, none correspond to a NRDCSCC2008 exceedance. Of the 52 QL v. PAL exceedances, all 52 results were associated with a dilution factor of 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 52 QL v. PAL exceedances, all 52 QLs exceed IGWSCC. Of the 52 QL v. IGWSCC exceedances, there are no instances where a QL exceeds IGWSCC and there are no detected IGWSCC exceedances for metals at the same station. This is important to note because the data user must acknowledge that there are instances where the achieved laboratory QLs are greater than the corresponding IGWSCC criteria and the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. However, the data still suggest that an action should be taken based on one or more metal detect IGWSCC exceedances at the same station. Please refer to Table 2.

Of the 52 QL v. PAL exceedances, no metal QLs exceed NRDCSCC2008. Please refer to Table 2, below.

3.6 Soil PARCC

3.6.1 Precision

All of the rejected results in the PCBs fraction were qualified as such due to precision issues, namely poor dual-column reproducibility. This is possibly indicative of poor precision. All of the rejected results in the metals fraction were qualified as such due to precision issues, namely poor field duplicate reproducibility. This is possibly indicative of poor precision. Otherwise, because other results were qualified but no rejected due to various precision-related QA/QC issues, the sample matrix did not interfere with the analytical process or adversely affect precision in most cases.

3.6.2 Accuracy

All of the rejected results in the volatiles fraction were qualified as such due to accuracy issues, namely calibration relative response factors out of specification, calibration relative standard deviation and percent difference out of specification, and internal standard area counts. These instances are all possibly indicative of a potential low bias. All of the rejected results in the semivolatile fraction were also qualified as such due to accuracy issues, namely internal standard area counts. This is possibly indicative of a potential low bias. All of the rejected pesticide results were qualified as such due to accuracy issues, namely low spiked surrogate recovery and DDT and endrin percent breakdown criteria. These instances are all possibly indicative of a potential low bias. Otherwise, because other results were qualified but not rejected due to various accuracy-related QA/QC issues, matrix effects and the laboratory's ability did not have an adverse effect on accuracy in the majority of cases.

3.6.3 Representativeness

There were no issues affecting representativeness in this data set.

3.6.4 Completeness

There were 815 R-qualified results in this dataset; therefore, the data validation process demonstrated that 92.23 percent of the results are available for use as qualified. For this data set, completeness exceeded the project goal of 90 percent from the UFP-QAPP. It should be noted, however, that some fractions when considered individually (comprising volatiles and pesticides; see sections 3.1.2 and 3.3.2, above), did not meet the 90 percent project goal for their respective data sub-sets.

3.6.5 Comparability

There were no issues affecting comparability in this data set.

3.7 Totals for "Available as Reported," "Available as Qualified," and Rejected

The data quality evaluation showed that the laboratory U-qualified 54.22 percent (5690 of 10495 results) of the data as nondetect and further qualification was not warranted. Another 17.01 percent (1785 of 10495 results) were detected and no further qualification was warranted. Another 10.60 percent (1112 of 10495 results) were J-qualified as "estimated" and no further qualification was warranted. These results were J-qualified simply because the concentration was lower than the quantitation limit; results J-qualified for this reason are also available for use as reported. Thus, the above 81.82 percent (8587 of 10495 results) of the data are available for use as reported.

Other J-qualifiers resulted from various QA/QC exceedances that were not severe enough to warrant rejection. These amounted to 4.26 percent (447 of 10495 results) of the total results. J-qualified results are available for use as detects at the reported concentration as long as the data user considers them "estimated". The percentage of nondetect results UJ-qualified as "nondetect, estimated quantitation limit" amounted to 3.13 percent (329 of 10495 results) and resulted from various QA/QC exceedances that were not severe enough to warrant rejection. UJ-qualified results are available for use as nondetects at the reported quantitation limit as long as the data user considers them "nondetect, estimated quantitation limit". A total of 1.80 percent (189 of 10495 results) was U-qualified as "not detected at

significantly greater than that in an associated blank". A total of 1.22 percent (128 of 10495 results) were NJ-qualified as "presumptively present at approximate quantity) as a result of various QA/QC exceedances that were not severe enough to warrant rejection. Based on the above, 10.41 percent (1093 of 10495 results) are available for use as qualified. Combining the 81.82 percent with the 10.41 percent, results in 92.23 percent (9689 of 10495 results) of the data available for use, qualified as applicable.

All results, with the exception of those R-qualified as "rejected" (815 of 10495 results, 7.77 percent of total results) are available for use as qualified.

4. Sediment Data Quality Evaluation

The purpose of this data quality evaluation is to summarize the findings of the data validation and any effects it may have on the availability of the data from the OU2 sediment sampling event at Diamond Head as well as to provide an assessment of data usability.

4.1 Volatile Organic Compounds

Volatiles were analyzed by USEPA CLP SOM01.2 "Low Soil" and "Medium Soil". Excluding field quality control samples, 416 distinct data points were generated. When rejected results are considered, the volatiles data set is 93.75 percent complete (390 of 416 volatiles results are available for use). The validation process resulted in the following qualifiers for results in the volatiles fraction:

- 64.90 percent (270 of 416 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 4.1.1, below)
- 13.94 percent (58 of 416 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 4.1.2, below)
- 11.06 percent (46 of 416 results) were J-qualified as "estimated" (see section 4.1.3, below)
- 6.25 percent (26 of 416 results) were R-qualified as "rejected" (see section 4.1.4, below)

4.1.1 U-qualification

A total of 252 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of 18 results (two for acetone, one for chloroform six for 2-butanone (all common laboratory contaminants), five for 1,1-dichloroethene, one for ethylbenzene, one for o-xylene, and two for m,p-xylenes) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "J" or "JB". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

4.1.2 UJ-qualification

A total of 58 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in 50 records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the eight results (J- or B-qualified by the laboratory) where the laboratory qualifier did not contain "U", the data validator changed the detect status from

detect to nondetect. This is typically a result of blank contamination (see section 4.1.1, above) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

4.1.3 J-qualification

A total of 46 results were J-qualified as "estimated" by the validator and for 44 results, the laboratory qualifier also contained "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For two records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

4.1.4 R-qualification

A total of 26 results were R-qualified as "rejected" by the validator and the laboratory qualifier was "U" (all 26 results). This is indicative of a potential extremely low bias and may be indicative of an inability to detect a compound, if present, in the sample. Review of the validation narratives revealed that VOA results were rejected due to spiked surrogate and/or deuterated monitoring compounds out of specification, calibration relative response factors out of specification, and internal standard area counts out of specification. Of particular note was contractual non-compliance for 1,4-Dioxane (and 1,4-Dioxane-d8, a deuterated monitoring compound). The average relative response factor for this compound was below the contractual criteria in the initial calibration and the continuing response factor was below the contractual criteria in all of the opening and closing CCV calibrations. The R-qualified VOA results, listed in Table 1, are not available for use to the project team.

4.1.5 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to NJ SSV and SQuiRTs project action limits. Of 328 U- or UJ-qualified results, none exceeded one or more of NJ SSV or SQuiRTs.

4.2 Semivolatile Organic Compounds

Semivolatiles were analyzed by USEPA CLP SOM01.2 "Low Soil" and "Medium Soil". Excluding field quality control samples, 536 distinct data points were generated. When rejected results are considered, the semivolatiles data set is 97.76 percent complete (524 of 536 semivolatiles results are available for use). The validation process resulted in the following qualifiers for results in the semivolatiles fraction:

- 50.19 percent (269 of 536 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 4.2.1, below)
- 20.52 percent (110 of 536 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 4.2.2, below)
- 19.78 percent (106 of 536 results) were J-qualified as "estimated" (see section 4.2.3, below)
- 2.24 percent (12 of 536 results) were R-qualified as "rejected" (see section 4.2.4, below)

4.2.1 U-qualification

A total of 264 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of five results (all for bis(2-ethylhexyl)phthalate, a common laboratory contaminant) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "B". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

4.2.2 UJ-qualification

A total of 110 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in 109 records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the one remaining result (B-qualified by the laboratory) where the laboratory qualifier did not contain "U", the data validator changed the detect status from detect to nondetect. This is typically a result of blank contamination (see section 4.2.1, above) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

4.2.3 J-qualification

A total of 106 results were J-qualified as "estimated" by the validator. For 88 results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For the remaining 18 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

4.2.4 R-qualification

Twelve results were R-qualified as "rejected" by the validator and the laboratory qualifier was "U" (all 12 results). This is indicative of a potential extremely low bias and may be indicative of an inability to detect a compound, if present, in the sample. Rejection included dibenzo(a,h)anthracene in one sample, hexachlorocyclopentadiene in eight samples, and di-n-octylphthalate in three samples. Review of the validation narratives revealed that SVOA results were rejected due to internal standard area counts out of specification. The R-qualified SVOA results, listed in Table 1, are not available for use to the project team.

4.2.5 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to NJ SSV and SQuiRTs project action limits. Of 379 U- or UJ-qualified results, 27 quantitation limits exceeded one or more of NJ SSV and SQuiRTs. Of the 27 QL v. PAL exceedances, two were the result of a medium concentration analysis (medium soil SVOCs) as opposed to low-concentration, which was anticipated. Of the 27 QL v. PAL exceedances, two results were associated with a dilution factor greater than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 27 QL v. PAL exceedances, 19 QLs exceed NJ SSV. Of the 19 QL v. NJ SSV exceedances, there are no instances where a QL exceeds NJ SSV and there are no detected NJ SSV exceedances for SVOCs at the same station. This is important to note because the data user must acknowledge that there are instances where the achieved laboratory QLs are greater than the corresponding NJ SSV criteria and the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. However, the data still suggest that an action should be taken based on one or more SVOC detect NJ SSV exceedances at the same station. Please refer to Table 3.

Of the 27 QL v. PAL exceedances, only eight QLs exceed SQuiRTs. Of the eight QL v. SQuiRTs exceedances, all eight QLs exceed SQuiRTs and there are no detected SQuiRTs exceedances for SVOCs at the same station. This occurs at SD-26, SD-30, SD-33, SD-34, SD-35, SD-37, and SD-38. It should be noted that this applies only to hexachlorobenzene. It should also be noted that there were detected NJ SSV exceedances at SD-26, SD-30, SD-33, SD-35, and SD-38 for SVOCs. In any case, the seven stations listed above are of interest because the data suggest that no action should be taken for SVOCs based on SQuiRTs, but there are instances where the achieved laboratory QLs are greater than the corresponding SQuiRTs criteria. There is increased uncertainty at these stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. MDLs were not evaluated against PALs because MDLs were not provided for SVOCs in this data set. Please refer to Table 3.

4.3 Pesticides

Pesticides were analyzed by USEPA CLP SOM01.2 "Soil". Excluding field quality control samples, 168 distinct data points were generated. When rejected results are considered, the pesticides data set is 91.67 percent complete (154 of 168 pesticides results are available for use). The validation process resulted in the following qualifiers for results in the pesticides fraction:

- 41.07 percent (69 of 167 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 4.3.1, below)
- 29.17 percent (49 of 167 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 4.3.2, below)
- 14.88 percent (25 of 167 results) were J-qualified as "estimated" (see section 4.3.3, below)
- 8.33 percent (14 of 167 results) were R-qualified as "rejected" (see section 4.3.4, below)
- 4.17 percent (7 of 167 results) were NJ-qualified as "presumptively present at approximate quantity" (see section 4.3.5, below)

4.3.1 U-qualification

A total of 69 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U" for 56 of them. This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of 13 results (one for alpha-chlordane, five for beta-chlordane, one for 4,4'-DDE, two for 4,4'-DDT, one for endrin aldehyde, two for endrin ketone, and one for methoxychlor) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "EP" or "JP". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It

does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

4.3.2 UJ-qualification

A total of 49 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in 38 records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the remaining 11 results (EP-, or JP-qualified by the laboratory) where the laboratory qualifier did not contain "U", the data validator changed the detect status from detect to nondetect. This is typically a result of blank contamination (see section 4.3.1, above) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

4.3.3 J-qualification

A total of 25 results were J-qualified as "estimated" by the validator and for 15 results, the laboratory qualifier was also "J" or "JP". Thus, the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For 10 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

4.3.4 R-qualification

A total of 14 results were R-qualified as "rejected" by the validator. These consist of rejected detects (one aldrin result, two beta-BHC results, one delta-BHC result, one gamma-BHC (lindane) result, two beta-chlordane results, one 4,4'-DDD results, one Endosulfan sulfate result, two endrin ketone results, one heptachlor result, one heptachlor epoxide result, and one methoxychlor result). All rejected results were associated with SD-35-0.0-0.5-3 and D-3-05-15-09-01. The rejected pesticide detects, on the other hand, were qualified as such due to extremely poor precision evidenced by poor dual-column reproducibility (relative percent difference exceeding 100% between columns). Because of such poor precision, and because the direction of bias (if any) is not known, these rejected results are also not available to the project team.

4.3.5 NJ-qualification

Seven results were NJ-qualified as "presumptively present at approximate quantity" by the validator. For each of the affected records, the laboratory qualifier contained "P" and thus this issue likely originates from precision exceedances. The NJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as detects at the reported quantitation limit as long as the data user considers the results to be "presumptively present at approximate quantity".

4.3.6 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to NJ SSV and SQuiRTs project action limits. Of 118 U- or UJ-qualified results, 36 quantitation limits exceeded one or more of NJ SSV and SQuiRTs. Of the 118 QL v. PAL exceedances, all results were associated with a dilution factor of 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 36 QL v. PAL exceedances, all 36 QLs exceed NJ SSV. Of the 36 QL v. NJ SSV exceedances, there are three instances where a QL exceeds NJ SSV and there are no detected NJ SSV exceedances for pesticides at the same station. This occurs for Aldrin, Dieldrin, and Endrin at SD-37. This station is of interest because the data suggest that no action should be taken for pesticides based on NJ SSV, but there are instances where the achieved laboratory QLs are greater than the corresponding NJ SSV criteria. There is increased uncertainty at SD-37 because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. MDLs were not evaluated against PALs because MDLs were not electronically-provided for pesticides in this data set. Please refer to Table 3.

Of the 36 QL v. PAL exceedances, no pesticides QLs exceed SQuiRTs. Please refer to Table 3.

4.4 PCBs (Aroclors)

PCBs were analyzed by USEPA CLP SOM01.2 "Soil". Excluding field quality control samples, 72 distinct data points were generated. When rejected results are considered, the PCB data set is 100 percent complete (all PCB results are available for use). The validation process resulted in the following qualifiers for results in the PCB fraction:

- 41.67 percent (30 of 72 results) were U-qualified as "nondetect" (see section 4.4.1, below)
- 27.78 percent (20 of 72 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 4.4.2, below)
- 18.06 percent (13 of 72 results) were J-qualified as "estimated" (see section 4.4.3, below)

4.4.1 U-qualification

A total of 315 results were U-qualified as "nondetect" by the laboratory and further qualification was not necessary.

4.4.2 UJ-qualification

A total of 20 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U". For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

4.4.3 J-qualification

A total of 13 results were J-qualified as "estimated" by the validator and for four results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not necessarily indicative of a QA/QC problem. For the remaining nine records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

4.4.4 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to NJ SSV and SQuiRTs project action limits. Of 50 U- or UJ-qualified results, 10 quantitation limits exceeded one or more of NJ SSV and

SQuiRTs. Of the 10 QL v. PAL exceedances, three results were associated with a dilution factor greater than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 10 QL v. PAL exceedances, all 10 QLs exceed NJ SSV. Of the 10 QL v. NJ SSV exceedances, there are no instances where a QL exceeds NJ SSV and there are no detected NJ SSV exceedances for PCBs at the same station. This is important to note because the data user must acknowledge that there are instances where the achieved laboratory QLs are greater than the corresponding NJ SSV criteria and the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. However, the data still suggest that an action should be taken based on one or more PCB detect NJ SSV exceedances at the same station. Please refer to Table 3.

Of the 10 QL v. PAL exceedances, no PCB QLs exceed SQuiRTs. Please refer to Table 3.

4.5 Metals

Metals, including mercury, were analyzed by USEPA CLP ILM05.4. Excluding field quality control samples, 184 distinct data points were generated. When rejected results are considered, the metals data set is 99.46 percent complete (183 of 184 metals results are available for use). The validation process resulted in the following qualifiers for results in the metals fraction:

- 53.80 percent (99 of 184 results) were J-qualified as "estimated" (see section 4.5.1, below)
- 9.24 percent (17 of 184 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 4.5.2, below)
- 7.07 percent (13 of 184 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 4.5.3, below)
- 0.54 percent (1 of 184 results) were R-qualified as "rejected" (see section 4.5.4, below)

4.5.1 J-qualification

A total of 99 results were J-qualified as "estimated" by the validator and for 31 results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier. This is not indicative of a QA/QC problem. For 68 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

4.5.2 U-qualification

Five results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of 12 laboratory J-qualified results (four for beryllium, four for cobalt, and four for sodium) were U-qualified as "not detected at significantly greater than that in an associated blank". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

4.5.3 UJ-qualification

A total of 13 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in five records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the remaining eight results (J-qualified by the laboratory) where the laboratory qualifier did not contain "U", the data validator changed the detect status from detect to nondetect. This is typically a result of blank contamination (see section 4.5.2, above) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

4.5.4 R-qualification

One result, consisting of mercury in D-3-05-15-09-01, was R-qualified as "rejected" by the validator and the laboratory qualifier was [null]. Review of the validation narratives revealed that metals results were rejected due to relative percent difference exceedances (greater than 35%) between parent and field duplicate samples when the analyte concentration is greater than 4X the CRQL. The R-qualified metals result, listed in Table 1, is not available for use to the project team because of poor precision.

4.5.5 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to NJ SSV and SQuiRTs project action limits. Of 30 U- or UJ-qualified results, four quantitation limits exceeded one or more of NJ SSV and SQuiRTs. Of the four QL v. PAL exceedances, all results were associated with a dilution factor of than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 30 QL v. PAL exceedances, four QLs exceed NJ SSV. Of the four QL v. NJ SSV exceedances, there are no instances where a QL exceeds NJ SSV and there are no detected NJ SSV exceedances for metals at the same station. This is important to note because the data user must acknowledge that there are instances where the achieved laboratory QLs are greater than the corresponding NJ SSV criteria and the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. However, the data still suggest that an action should be taken for one or more metals detect NJ SSV exceedances at the same station. Please refer to Table 3.

Of the 30 QL v. PAL exceedances, no metals QLs exceed SQuiRTs. Please refer to Table 3.

4.6 Sediment PARCC

4.6.1 Precision

All of the rejected results in the pesticides fraction were qualified as such due to precision issues, namely poor dual-column reproducibility. This is possibly indicative of poor precision. The rejected result in the metals fraction was qualified as such due to precision issues, namely poor field duplicate reproducibility. This is possibly indicative of poor precision. Otherwise, because other results were qualified but no rejected due to various precision-related QA/QC issues, the sample matrix did not interfere with the analytical process or adversely affect precision in most cases.

4.6.2 Accuracy

All of the rejected results in the volatiles fraction were qualified as such due to accuracy issues, namely spiked surrogate and/or deuterated monitoring compounds out of specification, calibration relative response factors out of specification, and internal standard area counts out of specification. These instances are all possibly indicative of a potential low bias. All of the rejected results in the semivolatile fraction were also qualified as such due to accuracy issues, namely internal standard area counts. This is possibly indicative of a potential low bias. Otherwise, because other results were qualified but not rejected due to various accuracy-related QA/QC issues, matrix effects and the laboratory's ability did not have an adverse effect on accuracy in the majority of cases.

4.6.3 Representativeness

There were no issues affecting representativeness in this data set.

4.6.4 Completeness

There were 53 R-qualified results in this data set; therefore, the data validation process demonstrated that 96.15 percent of the results are available for use as qualified. For this data set, completeness exceeded the project goal of 90 percent from the UFP-QAPP. It should be noted that all fractions, even when considered individually, still met the 90 percent project goal for their respective data sub-sets.

4.6.5 Comparability

There were no issues affecting comparability in this data set.

4.7 Totals for "Available as Reported," "Available as Qualified," and Rejected

The data quality evaluation showed that the laboratory U-qualified 44.11 percent (607 of 1376 results) of the data as nondetect and further qualification was not warranted. Another 8.87 percent (122 of 1376 results) were detected and no further qualification was warranted. Another 13.23 percent (182 of 1376 results) were J-qualified as "estimated" and no further qualification was warranted. These results were J-qualified simply because the concentration was lower than the quantitation limit; results J-qualified for this reason are also available for use as reported. Thus, the above 66.21 percent (911 of 1376 results) of the data are available for use as reported.

Other J-qualifiers resulted from various QA/QC exceedances that were not severe enough to warrant rejection. These amounted to 7.78 percent (107 of 1376 results) of the total results. J-qualified results are available for use as detects at the reported concentration as long as the data user considers them "estimated". The percentage of nondetect results UJ-qualified as "nondetect, estimated quantitation limit" amounted to 18.17 percent (250 of 1376 results) and resulted from various QA/QC exceedances that were not severe enough to warrant rejection. UJ-qualified results are available for use as nondetects at the reported quantitation limit as long as the data user considers them "nondetect, estimated quantitation limit". A total of 3.49 percent (48 of 1376 results) were U-qualified as "not detected at significantly greater than that in an associated blank". A total of 0.51 percent (7 of 1376 results) were NJ-qualified as "presumptively present at approximate quantity as a result of various QA/QC exceedances that were not severe enough to warrant rejection. Based on

the above, 29.94 percent (412 of 1376 results) are available for use as qualified. Combining the 66.21 percent with the 29.94 percent, results in 96.15 percent (1323 of 1376 results) of the data available for use, qualified as applicable.

All results, with the exception of those R-qualified as "rejected" (53 of 1376 results, 3.85 percent of total results) are available for use as qualified.

5. Groundwater Data Quality Evaluation

The purpose of this data quality evaluation is to summarize the findings of the data validation and any effects on the availability of the groundwater data for the Diamond Head Oil Superfund Site OU2 groundwater sampling event as well as to provide an assessment of data usability. References to "GWQ" below should be understood as a combined criteria set of GWQC and GWQS.

5.1 Volatile Organic Compounds

Volatiles were analyzed by EPA CLP SOM01.2 "Trace Water". Excluding field quality control samples, 1428 distinct data points were generated. As there were no rejected results, the volatiles data set is 100 percent complete (1428 of 1428 volatiles results are available for use). The validation process resulted in the following qualifiers for results in the volatiles fraction:

- 81.44 percent (1163 of 1428 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 5.1.1, below)
- 6.72 percent (96 of 1428 results) were J-qualified as "estimated" (see section 5.1.2, below)
- 1.61 percent (23 of 1428 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 5.1.3, below)

5.1.1 U-qualification

A total of 1061 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of 102 results (nine for acetone, thirteen for benzene, 18 for carbon disulfide, seven for chlorobenzene, 16 for chloroform, two for chloromethane, five for ethylbenzene, four for methylene chloride, 13 for toluene, one for 1,2,3-Trichlorobenzene, four for trichloroethylene, three for o-Xylene, and seven for m,p-xylenes) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "J" or [null]. Methylene chloride and acetone are common laboratory contaminants. U-qualification does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

5.1.2 J-qualification

A total of 297 results were J-qualified as "estimated" by the validator. For 91 results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For the remaining 206 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the

availability of results because J-qualified results are available for use as detects at the reported concentration.

5.1.3 UJ-qualification

A total of 23 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in 22 records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the one results (JB-qualified by the laboratory) where the laboratory qualifier did not contain "U", the data validator changed the detect status from detect to nondetect. This is typically a result of blank contamination (see section 5.1.1, above) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

5.1.4 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to GWQ and MCL project action limits. Of 1186 U- or UJ-qualified results, 87 quantitation limits exceeded one or more of GWQ or MCL. Of the 87 QL v. PAL exceedances, 31 results were associated with a dilution factor greater than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 87 QL v. PAL exceedances, 57 QLs exceed GWQ. Of the 57 QL v. GWQ exceedances, there are 18 instances where a QL exceeds GWQ and there are no detected GWQ exceedances for VOCs at the same station. This occurs at MW-01, MW-05, MW-06S, MW-09S, MW-10D, MW-10S, MW-14S, MW-15D, MW-15S, MW-17S, MW-20S, MW-21S, MW-23S, MW-24S, MW-25S, and MW-26S. These stations are of interest because the data suggest that no action should be taken for VOCs based on GWQ, but there are instances where the achieved laboratory QLs are greater than the corresponding GWQ criteria. This occurs only for 1,2-dibromoethane. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. At each of the above-mentioned stations, the MDL is also greater than the PAL. This introduces yet more uncertainty because the laboratory may not be able to detect the contaminant if present in the sample at or greater than the PAL. Please refer to Table 4.

Of the 87 QL v. PAL exceedances, only 40 QLs exceed MCL. Of the 40 QL v. MCL exceedances, there are 24 instances where a QL exceeds MCL and there are no detected MCL exceedances for VOCs at the same station. This occurs at MW-01S, MW-02S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11S, MW-13D, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-20S, MW-21S, MW-23S, MW-24S, MW-25S, and MW-. It should be noted that this applies only to 1,2-dibromo-3-chloropropane. These stations are of interest because the data suggest that no action should be taken for VOCs based on MCL, but there are instances where the achieved laboratory QLs are greater than the corresponding MCL criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. At each of the above-mentioned stations, the QL v. PAL exceedances are associated with MDLs that are still less than the PAL. For these data points, the laboratory would likely still detect the contaminant, if present in the sample, at or greater than the PAL. Please refer to Table 4.

5.2 Semivolatile Organic Compounds

Semivolatiles were analyzed by EPA CLP SOM01.2 "Low Water". Excluding field quality control samples, 1810 distinct data points were generated. When rejected results are considered, the semivolatiles data set is 96.19 percent complete (1741 of 1810 semivolatiles results are available for use). The validation process resulted in the following qualifiers for results in the semivolatiles fraction:

- 84.48 percent (1529 of 1810 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 5.2.1, below)
- 5.97 percent (108 of 1810 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 5.2.2, below)
- 4.48 percent (81 of 1810 results) were J-qualified as "estimated" (see section 5.2.3, below)
- 3.81 percent (69 of 1810 results) were R-qualified as "rejected" (see section 5.2.4, below)

5.2.1 U-qualification

For all 1529 U-qualified results, the laboratory qualifier was also "U". These were deemed "nondetect" by the laboratory and this does not indicate a QA/QC problem and does not change the detect status of a particular result.

5.2.2 UJ-qualification

A total of 108 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in each record. The data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

5.2.3 J-qualification

A total of 81 results were J-qualified as "estimated" by the validator. For 79 results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For the remaining two records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

5.2.4 R-qualification

A total of 69 results were R-qualified as "rejected" by the validator and the laboratory qualifier was "U" (all 69 results). This is indicative of a potential extremely low bias and may be indicative of an inability to detect a compound, if present, in the sample. Rejection included 61 SVOA results in MW-21S-3, six PAHs and di-n-octylphthalate in MW-18S-3, and 2,3,4,6-tetrachlorophenol in MW-19S-3. Review of the data validation narratives revealed that SVOA results were rejected due to internal standard area counts out of specification. The R-qualified SVOA results, listed in Table 1, are not available for use to the project team.

5.2.5 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to GWQ and MCL project action limits. Of 1637 U- or UJ-qualified results, 202 quantitation limits exceeded one or more of GWQ or MCL. Of the 198 QL v. PAL exceedances, 56 results were associated with a dilution factor greater

than 1. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 202 QL v. PAL exceedances, 178 QLs exceed GWQ. Of the 178 QL v. GWQ exceedances, there are 163 instances where a QL exceeds GWQ and there are no detected GWQ exceedances for SVOCs at the same station. This occurs at MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S. This occurs for 4,6-Dinitro-2-methylphenol, Atrazine, Bis(2-Chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Hexachlorobenzene, Hexachlorobutadiene, Hexachloroethane, Nitrobenzene, and Pentachlorophenol. These above-mentioned stations are of interest because the data suggest that no action should be taken for SVOCs based on GWQ, but there are instances where the achieved laboratory QLs are greater than the corresponding GWQ criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. At each of the above-mentioned stations, there is at least one instance where the MDL is also greater than the PAL. This introduces yet more uncertainty because the laboratory may not be able to detect a particular contaminant if present in the sample at or greater than the PAL. Please refer to Table 4.

Of the 202 QL v. PAL exceedances, only 107 exceed MCL. Of the 107 QL v. MCL exceedances, there are 104 instances where a QL exceeds MCL and there are no detected MCL exceedances for SVOCs at the same station. This occurs at MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-12D, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-24S, MW-25S, and MW-26S. These stations are of interest because the data suggest that no action should be taken for SVOCs based on MCL, but there are instances where the achieved laboratory QLs are greater than the corresponding MCL criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. At each of the above-mentioned stations, there is at least one instance where the MDL is also greater than the PAL. This introduces yet more uncertainty because the laboratory may not be able to detect a particular contaminant if present in the sample at or greater than the PAL. Please refer to Table 4.

5.3 Pesticides

Pesticides were analyzed by EPA CLP SOM01.2 "Water". Excluding field quality control samples, 630 distinct data points were generated. When rejected results are considered, the pesticides data set is 94.60 percent complete (596 of 630 pesticides results are available for use). The validation process resulted in the following qualifiers for results in the pesticides fraction:

- 72.54 percent (457 of 630 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 5.3.1, below)
- 15.24 percent (96 of 630 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 5.3.2, below)
- 6.67 percent (42 of 630 results) were J-qualified as "estimated" (see section 5.3.3, below)

- 5.40 percent (34 of 630 results) were R-qualified as "rejected" (see section 5.3.4, below)
- 0.16 percent (1 of 630 results) were NJ-qualified as "presumptively present at approximate quantity" (see section 5.3.5, below)

5.3.1 UJ-qualification

A total of 457 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in 358 records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the remaining 99 results (EP-, JP-, or JPB -qualified by the laboratory) where the laboratory qualifier did not contain "U", the data validator changed the detect status from detect to nondetect. This is typically a result of blank contamination (see section 5.3.2, below) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

5.3.2 U-qualification

A total of 96 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U" for 92 of them. This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. Four results (4,4'-DDD, beta-BHC, and Endosulfan Sulfate in MW-10S-3 and 4,4'-DDE in D-3-06-10-09-3) were U-qualified as "not detected at significantly greater than that in an associated blank" and the laboratory qualifier was "JP" or "JPB". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

5.3.3 J-qualification

A total of 42 results were J-qualified as "estimated" by the validator and for 39 results, the laboratory qualifier was also "J" or "JP". Thus, the laboratory qualifier simply carried over to the data validation qualifier and this is not indicative of a QA/QC problem. For three records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

5.3.4 R-qualification

A total of 34 results were R-qualified as "rejected" by the validator. These consist of 28 rejected nondetects (nineteen results from MW-02S-3, three results from MW-12S-3, and six results at MW-21S-3) which is indicative of a potential extremely low bias and may be indicative of an inability to detect a compound, if present, in the sample. The remaining six consist of rejected detects (four results from MW-12S-3 and two results form MW-12S-3).

Review of the data validation narratives revealed that pesticide nondetects were rejected due to low spiked surrogate recovery. These R-qualified pesticide results, listed in Table 1, are generally not available to the project team. The rejected pesticide detects, on the other hand, were qualified as such due to poor accuracy evidenced by low spiked-surrogate recovery and extremely poor precision evidenced by poor dual-column reproducibility (relative percent difference exceeding 100% between columns). Because of such poor precision, and because the direction of bias (if any) is not known, most rejected results are

also not available to the project team. Pesticide detects rejected due to low spiked surrogate recovery (extremely low bias) may still be used by the project team if they exceed a project action limit as long as they are conservatively considered to be PAL exceedances.

5.3.5 NJ-qualification

One result (aldrin in MW-12S-3) was NJ-qualified as "presumptively present at approximate quantity" by the validator. For each of the affected records, the laboratory qualifier contained "P" and thus this issue likely originates from precision exceedances. The NJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as detects at the reported quantitation limit as long as the data user considers the results to be "presumptively present at approximate quantity".

5.3.6 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to GWQ and MCL project action limits. Of 553 U- or UJ-qualified results, 159 quantitation limits exceeded one or more of GWQ and MCL. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 159 QL v. PAL exceedances, all 159 QLs exceed GWQ. Of the 159 QL v. GWQ exceedances, there are 152 instances where a QL exceeds GWQ and there are no detected GWQ exceedances for pesticides at the same station. This occurs at MW-01S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S. This occurs only for Aldrin, alpha-BHC, beta-BHC, Dieldrin, gamma-BHC (Lindane), and Toxaphene. These stations are of interest because the data suggest that no action should be taken for pesticides based on GWQ, but there are instances where the achieved laboratory QLs are greater than the corresponding GWQ criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. MDLs were not evaluated against PALs because MDLs were not electronically-provided for pesticides in this data set. Please refer to Table 4.

Of the 159 QL v. PAL exceedances, only 27 exceed MCL. Of the 27 QL v. MCL exceedances, the QL exceeds the MCL and there are no detected MCL exceedances for pesticides at the same station for all 27 instances. This occurs at MW-01S, MW-3S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S,MW-25S, and MW-26S. It should be noted that this applies only to toxaphene. These stations are of interest because the data suggest that no action should be taken for pesticides based on MCL, but there are instances where the achieved laboratory QLs are greater than the corresponding MCL criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. MDLs were not evaluated against PALs because MDLs were not electronically-provided for pesticides in this data set. Please refer to Table 4.

5.4 PCBs (Aroclors)

PCBs were analyzed by EPA CLP SOM01.2 "Water". Excluding field quality control samples, 270 distinct data points were generated. When rejected results are considered, the PCB data set is 97.04 percent complete (262 of 270 PCB results are available for use). The validation process resulted in the following qualifiers for results in the PCB fraction:

- 55.93 percent (151 of 270 results) were UJ-qualified as "nondetect, estimated quantitation limit" (see section 5.4.1, below)
- 40.00 percent (108 of 270 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 5.4.2, below)
- 2.96 percent (8 of 270 results) were R-qualified as "rejected" (see section 5.4.3, below)
- 0.74 percent (2 of 270 results) were J-qualified as "estimated" (see section 5.4.4, below)
- 0.37 percent (1 of 270 results) were NJ-qualified as "presumptively present at approximate quantity" (see section 5.4.5, below)

5.4.1 UJ-qualification

A total of 151 results were UJ-qualified as "nondetect, estimated quantitation limit" by the validator and the laboratory qualifier contained "U" in 150 records. For these results, the data validator did not change the detect status, but the UJ-qualifier may be indicative of a QA/QC problem. For the one remaining JP-qualified result, the data validator changed the detect status from detect to nondetect. This is typically a result of blank contamination (see section 5.4.2, below) combined with another QA/QC issue. The UJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as nondetects at the reported quantitation limit.

5.4.2 U-qualification

A total of 108 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result.

5.4.3 R-qualification

Eight results, consisting of all Aroclors in MW-21S-3, were R-qualified as "rejected" by the validator. This is indicative of a potential extremely low bias and may be indicative of an inability to detect a compound, if present, in the sample. Review of the data validation narratives revealed that nondetect PCB results were rejected due to low spiked-surrogate recovery. The R-qualified PCB results, listed in Table 1, are not available for use to the project team because of extreme low bias.

5.4.4 J-qualification

Two results were J-qualified as "estimated" by the validator the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier and this is not necessarily indicative of a QA/QC problem.

5.4.5 NJ-qualification

One result was NJ-qualified as "presumptively present at approximate quantity" by the validator. For this records, the laboratory qualifier contained "P" and thus this issue likely originates from precision exceedances. The NJ-qualification of data by the data validator does not affect the availability of data because these results are available for use as detects at

the reported quantitation limit as long as the data user considers the results to be "presumptively present at approximate quantity".

5.4.6 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to GWQ and MCL project action limits. Of 259 U- or UJ-qualified results, 201 quantitation limits exceeded one or more of GWQ or MCL. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 201 QL v. PAL exceedances, no PCB QLs exceed GWQ. Please refer to Table 4.

Of the 201 QL v. PAL exceedances, all 201 exceed MCL. Of the 201 QL v. MCL exceedances, there are 195 instances where a QL exceeds MCL and there are no detected MCL exceedances for PCBs at the same station. This occurs at MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-12S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S. This applies to Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, and Aroclor-1260. These stations are of interest because the data suggest that no action should be taken for PCBs based on MCL, but there are instances where the achieved laboratory QLs are greater than the corresponding MCL criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. MDLs were not evaluated against PALs because MDLs were not electronically-provided for PCBs in this data set. Please refer to Table 4.

5.5 Metals

Metals, including mercury, were analyzed by EPA CLP ILM05.4 and "ICP-MS" and "ICP-AES". Mercury was analyzed by cold vapor. Excluding field quality control samples, 690 distinct data points were generated. When rejected results are considered, the metals data set is 99.28 percent complete (685 of 690 metals results are available for use). The validation process resulted in the following qualifiers for results in the metals fraction:

- 39.71 percent (274 of 690 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 5.5.1, below)
- 17.68 percent (122 of 690 results) were J-qualified as "estimated" (see section 5.5.2, below)
- 0.72 percent (5 of 690 results) were R-qualified as "rejected" (see section 5.5.3, below)

5.5.1 U-qualification

A total of 242 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. A total of 32 laboratory J-qualified results (one for antimony, four for arsenic, one for beryllium, four for cadmium, three for cobalt, one for copper, one for lead, six for nickel, four for selenium, two for vanadium, and five for zinc) were U-qualified as "not detected at significantly greater than that in an associated blank". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does

not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

5.5.2 J-qualification

A total of 90 results were J-qualified as "estimated" by the validator and for 32 results, the laboratory qualifier was also "J" and thus the laboratory qualifier simply carried over to the data validation qualifier. This is not indicative of a QA/QC problem. For the remaining 58 records, the data validator applied a "J" qualifier to the data and this may be indicative of a QA/QC problem. This does not change the detect status and does not affect the availability of results because J-qualified results are available for use as detects at the reported concentration.

5.5.3 R-qualification

Five results, consisting of aluminum, chromium, and lead in MW-07S-3, aluminum in D-3-05-29-09-3, and lead in MW-20S-3, were R-qualified as "rejected" by the validator and the laboratory qualifier was [null] (all five results). Review of the data validation narratives revealed that metals results were rejected due to relative percent difference exceedances (greater than 35%) between parent and field duplicate samples when the analyte concentration is greater than 5X the CRQL (4X for mercury). The R-qualified metals results, listed in Table 1, are not available for use to the project team because of poor precision.

5.5.4 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to GWQ and MCL project action limits. Of 274 U- or UJ-qualified results, 99 quantitation limits exceeded one or more of GWQ or MCL. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the 99 QL v. PAL exceedances, no metals QLs exceed GWQ. Please refer to Table 4, below.

Of the 99 QL v. PAL exceedances, all 99 exceed MCL. Of the 99 QL v. MCL exceedances, there are 32 instances where a QL exceeds MCL and there are no detected MCL exceedances for metals at the same station. This occurs at MW-01S, MW-04S, MW-05S, MW-06S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, and MW-. It should be noted that this occurs only for antimony and thallium. These stations are of interest because the data suggest that no action should be taken for metals based on MCL, but there are instances where the achieved laboratory QLs are greater than the corresponding MCL criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. MDLs were not evaluated against PALs because MDLs were not electronically-provided for metals in this data set. Please refer to Table 4, below.

5.6 Filtered Metals

Filtered metals, including mercury, were analyzed by EPA CLP ILM05.4 and "ICP-MS" and "ICP-AES". Mercury was analyzed by cold vapor. Excluding field quality control samples, 46 distinct data points were generated. The filtered metals data set is 100 percent complete (46 of 46 filtered metals results are available for use). The validation process resulted in the following qualifiers for results in the filtered metals fraction:

- 52.17 percent (24 of 46 results) were U-qualified as "nondetect" or "not detected at significantly greater than that in an associated blank" (see section 5.6.1, below)
- 15.22 percent (7 of 46 results) were J-qualified as "estimated" (see section 5.6.2, below)

5.6.1 U-qualification

A total of 22 results were U-qualified as "nondetect" by the validator and the laboratory qualifier was also "U". This does not affect the availability of results, does not indicate a QA/QC problem, and does not change the detect status of a particular result. Two laboratory J-qualified results (one for arsenic and one for nickel) were U-qualified as "not detected at significantly greater than that in an associated blank". This does not affect the availability of results because these results are available for use as nondetects at the adjusted quantitation limit. It does not necessarily indicate a QA/QC problem but it does change the detect status of a particular result.

5.6.2 J-qualification

Seven results were J-qualified as "estimated" by the validator and the laboratory qualifier was also "J". Thus, the laboratory qualifier simply carried over to the data validation qualifier. This is not indicative of a QA/QC problem.

5.6.3 QL v. PAL Exceedances

Nondetect U- or UJ-values were compared to GWQ and MCL project action limits. Of 22 U- or UJ-qualified results, eight quantitation limits exceeded one or more of GWQ or MCL. Typical reasons for elevated quantitation limits and reasons for QL v. PAL exceedances are discussed in Section 2, above.

Of the eight QL v. PAL exceedances, all eight exceed GWQ. Of the eight QL v. MCL exceedances, there are four instances where a QL exceeds MCL and there are no detected GWQ exceedances for filtered metals at the same station. This occurs at MW-11S and for antimony, arsenic, beryllium, and thallium. This station is of interest because the data suggest that no action should be taken for filtered metals based on GWQ, but there are instances where the achieved laboratory QLs are greater than the corresponding GWQ criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. MDLs were not evaluated against PALs because MDLs were not electronically-provided for filtered metals in this data set. Please refer to Table 4.

Of the eight QL v. PAL exceedances, four QLs exceed MCL. Of the four QL v. MCL exceedances, all four instances exceed MCL and there are no detected MCL exceedances for filtered metals at the same station. This occurs at MW-11S and MW-11D for antimony and thallium. These stations are of interest because the data suggest that no action should be taken for filtered metals based on MCL, but there are instances where the achieved laboratory QLs are greater than the corresponding MCL criteria. There is increased uncertainty at the above-mentioned stations because the laboratory may not be able to practically quantitate the concentration of a contaminant if it is present in the sample at or greater than the PAL. MDLs were not evaluated against PALs because MDLs were not electronically-provided for filtered metals in this data set. Please refer to Table 4.

5.7 Groundwater PARCC

5.7.1 Precision

Several of the results in the pesticide fraction were qualified as such due to precision issues, namely poor dual-column reproducibility. This is possibly indicative of poor precision. All of the rejected results in the metals fraction were qualified as such due to precision issues, namely poor field duplicate reproducibility. This is possibly indicative of poor precision. Otherwise, because other results were qualified but no rejected due to various precision-related QA/QC issues, the sample matrix did not interfere with the analytical process or adversely affect precision in most cases.

5.7.2 Accuracy

All of the rejected results in the SVOA fraction were qualified as such due to accuracy issues, namely internal standard area counts. These instances are all possibly indicative of a potential low bias. Several of the rejected results in the pesticides/PCBs fraction were also qualified as such due to accuracy issues, namely low spiked surrogate recoveries. Otherwise, because other results were qualified but not rejected due to various accuracy-related QA/QC issues, matrix effects and the laboratory's ability did not have an adverse effect on accuracy in the majority of cases.

5.7.3 Representativeness

There were no issues affecting representativeness in this data set.

5.7.4 Completeness

There were 116 R-qualified results in this dataset; therefore, the data validation process demonstrated that 97.62 percent of the results are available for use as qualified. For this data set, completeness exceeded the project goal of 90 percent from the UFP-QAPP.

5.7.5 Comparability

There were no issues affecting comparability in this data set.

5.8 Totals for "Available as Reported," "Available as Qualified," and Rejected

The data quality evaluation showed that the laboratory U-qualified 62.66 percent (3054 of 4874 results) of the data as nondetect and further qualification was not warranted. Another 9.70 percent (473 of 4874 results) were detected and no further qualification was warranted. Another 6.32 percent (308 of 4874 results) were J-qualified as "estimated" and no further qualification was warranted. These results were J-qualified simply because the concentration was lower than the quantitation limit; results J-qualified for this reason are also available for use as reported. Thus, the above 78.68 percent (3835 of 4874 results) of the data are available for use as reported.

Other J-qualifiers resulted from various QA/QC exceedances that were not severe enough to warrant rejection. These amounted to 0.86 percent (42 of 4874 results) of the total results. J-qualified results are available for use as detects at the reported concentration as long as the data user considers them "estimated". The percentage of nondetect results UJ-qualified as "nondetect, estimated quantitation limit" amounted to 15.16 percent (739 of 4874 results)

and resulted from various QA/QC exceedances that were not severe enough to warrant rejection. UJ-qualified results are available for use as nondetects at the reported quantitation limit as long as the data user considers them "nondetect, estimated quantitation limit". A total of 2.87 percent (140 of 4874 results) was U-qualified as "not detected at significantly greater than that in an associated blank". A total of 0.04 percent (2 of 4874 results) were NJ-qualified as "presumptively present at approximate quantity) as a result of various QA/QC exceedances that were not severe enough to warrant rejection. Based on the above, 18.94 percent (923 of 4874 results) are available for use as qualified. Combining the 78.68 percent with the 18.94 percent results in 97.62 percent (4758 of 4874 results) data available for use, qualified as applicable.

All results, with the exception of those R-qualified as "rejected" (116 of 4874 results, 2.38 percent of total results) are available for use as qualified.

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	METAL	D-3-05-06-09-01	Chromium	7440-47-3	23500		R	ug/kg
SB	METAL	D-3-05-06-09-01	Copper	7440-50-8	189000		R	ug/kg
SB	METAL	D-3-05-06-09-01	Mercury	7439-97-6	520		R	ug/kg
SB	METAL	D-3-05-06-09-01	Zinc	7440-66-6	224000		R	ug/kg
SB	METAL	SB-44-0.5-1.0-3	Chromium	7440-47-3	224000		R	ug/kg
SB	METAL	SB-44-0.5-1.0-3	Copper	7440-50-8	812000		R	ug/kg
SB	METAL	SB-44-0.5-1.0-3	Zinc	7440-66-6	2840000		R	ug/kg
SB	PCB	D-3-05-14-09-05	Pcb-araclor 1254	11097-69-1	250	EP	R	ug/kg
SB	PCB	MW-20S-26.0-27.0-3	Pcb-araclor 1254	11097-69-1	250	P	R	ug/kg
SB	PCB	SB-52-16.3-17.3-3	Pcb-araclor 1242	53469-21-9	670	EPS	R	ug/kg
SB	PCB	SB-56-6 4-7.4-3	Pcb-araclor 1260	11096-82-5	310	EP	R	ug/kg
SB	PEST	D-3-05-06-09-01	Aldrin	309-00-2	4.9	P	R	ug/kg
SB	PEST	D-3-05-06-09-01	Chlordane - alpha	5103-71-9	4.3	P	R	ug/kg
SB	PEST	D-3-05-06-09-01	Chlordane - beta	5103-74-2	4.8	EP	R	ug/kg
SB	PEST	D-3-05-06-09-01	DDE-4,4	72-55-9	14	P	R	ug/kg
SB	PEST	D-3-05-06-09-01	Dieldrin	60-57-1	13	P	R	ug/kg
SB	PEST	D-3-05-06-09-01	Endosulfan I (alpha)	959-98-8	6.5	P	R	ug/kg
SB	PEST	D-3-05-06-09-01	Endosulfan II (beta)	33213-65-9	10	P	R	ug/kg
SB	PEST	D-3-05-06-09-01	Endrin	72-20-8	5.8	P	R	ug/kg
SB	PEST	D-3-05-06-09-01	Endrin ketone	53494-70-5	8.8	P	R	ug/kg
SB	PEST	D-3-05-06-09-01	Heptachlor Epoxide	1024-57-3	17	EP	R	ug/kg
SB	PEST	D-3-05-08-09-02	DDE-4,4	72-55-9	6.4	P	R	ug/kg
SB	PEST	D-3-05-08-09-03	BHC, beta	319-85-7	6.7	P	R	ug/kg
SB	PEST	D-3-05-08-09-03	Chlordane - alpha	5103-71-9	2.7	P	R	ug/kg
SB	PEST	D-3-05-08-09-03	Chlordane - beta	5103-74-2	4.8	EP	R	ug/kg
SB	PEST	D-3-05-08-09-03	Endosulfan II (beta)	33213-65-9	4.7	P	R	ug/kg
SB	PEST	D-3-05-08-09-03	Endrin Aldehyde	7421-93-4	8.1	P	R	ug/kg
SB	PEST	D-3-05-08-09-03	Heptachlor Epoxide	1024-57-3	3.6	EP	R	ug/kg
SB	PEST	D-3-05-11-09-04	Aldrin	309-00-2	12	P	R	ug/kg
SB	PEST	D-3-05-11-09-04	BHC, beta	319-85-7	21	P	R	ug/kg
SB	PEST	D-3-05-11-09-04	BHC, delta	319-86-8	4.2	P	R	ug/kg
SB	PEST	D-3-05-11-09-04	BHC, gamma (Lindane)	58-89-9	5	EP	R	ug/kg
SB	PEST	D-3-05-11-09-04	Chlordane - alpha	5103-71-9	68	EP	R	ug/kg
SB	PEST	D-3-05-11-09-04	Chlordane - beta	5103-74-2	28	EP	R	ug/kg
SB	PEST	D-3-05-11-09-04	DDD-4,4	72-54-8	18	P	R	ug/kg
SB	PEST	D-3-05-11-09-04	Endosulfan I (alpha)	959-98-8	7.9	P	R	ug/kg
SB	PEST	D-3-05-11-09-04	Endosulfan II (beta)	33213-65-9	15	P	R	ug/kg
SB	PEST	D-3-05-11-09-04	Endrin Aldehyde	7421-93-4	35	P	R	ug/kg
SB	PEST	D-3-05-11-09-04	Heptachlor Epoxide	1024-57-3	12	EP	R	ug/kg
SB	PEST	D-3-05-11-09-04	Methoxychlor	72-43-5	50	P	R	ug/kg
SB	PEST	MW-18S-10.6-11.6-3	Chlordane - beta	5103-74-2	45	EP	R	ug/kg
SB	PEST	MW-18S-10.6-11.6-3	Endrin	72-20-8	14	P	R	ug/kg
SB	PEST	MW-18S-10.6-11.6-3	Heptachlor	76-44-8	4.1	P	R	ug/kg
SB	PEST	MW-18S-10.6-11.6-3	Heptachlor Epoxide	1024-57-3	17	P	R	ug/kg
SB	PEST	MW-18S-5.5-6.5-3	Aldrin	309-00-2	5.4	EP	R	ug/kg

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Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	PEST	MW-18S-5.5-6.5-3	BHC, alpha	319-84-6	6.8	P	R	ug/kg
SB	PEST	MW-18S-5.5-6.5-3	BHC, beta	319-85-7	45	EP	R	ug/kg
SB	PEST	MW-18S-5.5-6.5-3	BHC, gamma (Lindane)	58-89-9	9.8	EP	R	ug/kg
SB	PEST	MW-18S-5.5-6.5-3	Chlordane - beta	5103-74-2	5.2	EP	R	ug/kg
SB	PEST	MW-18S-5.5-6.5-3	Endosulfan I (alpha)	959-98-8	2.2	P	R	ug/kg
SB	PEST	MW-18S-5.5-6.5-3	Heptachlor	76-44-8	15	P	R	ug/kg
SB	PEST	MW-18S-5.5-6.5-3	Heptachlor Epoxide	1024-57-3	4	EP	R	ug/kg
SB	PEST	MW-19S-0.5-1.5-3	DDD-4,4	72-54-8	7.3	P	R	ug/kg
SB	PEST	MW-19S-0.5-1.5-3	Dieldrin	60-57-1	8.4	P	R	ug/kg
SB	PEST	MW-19S-0.5-1.5-3	Endrin Aldehyde	7421-93-4	6.4	P	R	ug/kg
SB	PEST	MW-19S-0.5-1.5-3	Endrin ketone	53494-70-5	16	P	R	ug/kg
SB	PEST	MW-19S-26.0-27.0-3	DDD-4,4	72-54-8	5.9	P	R	ug/kg
SB	PEST	MW-19S-26.0-27.0-3	Endrin Aldehyde	7421-93-4	4.8	P	R	ug/kg
SB	PEST	MW-19S-29.0-30.0-3	Chlordane - alpha	5103-71-9	3.2	P	R	ug/kg
SB	PEST	MW-19S-29.0-30.0-3	Chlordane - beta	5103-74-2	3.5	EP	R	ug/kg
SB	PEST	MW-19S-29.0-30.0-3	Endosulfan Sulfate	1031-07-8	12	P	R	ug/kg
SB	PEST	MW-19S-29.0-30.0-3	Heptachlor Epoxide	1024-57-3	4	P	R	ug/kg
SB	PEST	MW-19S-29.0-30.0-3	Methoxychlor	72-43-5	36	P	R	ug/kg
SB	PEST	MW-20S-0.5-1.5-3	Chlordane - beta	5103-74-2	4.8	P	R	ug/kg
SB	PEST	MW-20S-0.5-1.5-3	Endrin ketone	53494-70-5	4.4	P	R	ug/kg
SB	PEST	MW-20S-0.5-1.5-3	Heptachlor	76-44-8	2.2	P	R	ug/kg
SB	PEST	MW-20S-15.0-16.0-3	Aldrin	309-00-2	2.7	P	R	ug/kg
SB	PEST	MW-20S-15.0-16.0-3	BHC, alpha	319-84-6	9.3	P	R	ug/kg
SB	PEST	MW-20S-15.0-16.0-3	BHC, delta	319-86-8	5.6	P	R	ug/kg
SB	PEST	MW-20S-15.0-16.0-3	Heptachlor	76-44-8	6.9	P	R	ug/kg
SB	PEST	MW-20S-15.0-16.0-3	Heptachlor Epoxide	1024-57-3	3.2	EP	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Aldrin	309-00-2	2.2	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	BHC, delta	319-86-8	2.2	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	BHC, gamma (Lindane)	58-89-9	2.2	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Chlordane - alpha	5103-71-9	2.2	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Chlordane - beta	5103-74-2	2.4	P	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	DDE-4,4	72-55-9	4.3	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Dieldrin	60-57-1	4.3	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Endosulfan I (alpha)	959-98-8	2.2	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Endosulfan II (beta)	33213-65-9	4.3	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Endosulfan Sulfate	1031-07-8	4.3	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Endrin	72-20-8	4.3	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Endrin Aldehyde	7421-93-4	4.3	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Endrin ketone	53494-70-5	4.3	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Methoxychlor	72-43-5	22	U	R	ug/kg
SB	PEST	MW-20S-26.0-27.0-3	Toxaphene	8001-35-2	220	U	R	ug/kg
SB	PEST	SB-39-0.5-1.5-3	Chlordane - beta	5103-74-2	2.6	EP	R	ug/kg
SB	PEST	SB-39-0.5-1.5-3	DDD-4,4	72-54-8	5.7	P	R	ug/kg
SB	PEST	SB-39-0.5-1.5-3	Dieldrin	60-57-1	5.1	P	R	ug/kg
SB	PEST	SB-39-5.0-6.0-3	Aldrin	309-00-2	4.3	P	R	ug/kg

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Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	PEST	SB-39-5.0-6.0-3	Chlordane - beta	5103-74-2	8.9	EP	R	ug/kg
SB	PEST	SB-39-5.0-6.0-3	Heptachlor Epoxide	1024-57-3	6.2	EP	R	ug/kg
SB	PEST	SB-40-0.5-1.5-3	BHC, beta	319-85-7	2.8	P	R	ug/kg
SB	PEST	SB-40-0.5-1.5-3	Chlordane - beta	5103-74-2	3	EP	R	ug/kg
SB	PEST	SB-40-0.5-1.5-3	DDT-4,4	50-29-3	10	P	R	ug/kg
SB	PEST	SB-40-6.5-7.5-3	BHC, beta	319-85-7	7.8	P	R	ug/kg
SB	PEST	SB-40-6.5-7.5-3	Chlordane - alpha	5103-71-9	2.7	P	R	ug/kg
SB	PEST	SB-40-6.5-7.5-3	Chlordane - beta	5103-74-2	6.7	EP	R	ug/kg
SB	PEST	SB-40-6.5-7.5-3	Heptachlor Epoxide	1024-57-3	3.7	P	R	ug/kg
SB	PEST	SB-41-0.5-1.5-3	Aldrin	309-00-2	180	EP	R	ug/kg
SB	PEST	SB-41-0.5-1.5-3	BHC, beta	319-85-7	18	EP	R	ug/kg
SB	PEST	SB-41-0.5-1.5-3	Dieldrin	60-57-1	16	P	R	ug/kg
SB	PEST	SB-41-0.5-1.5-3	Endosulfan I (alpha)	959-98-8	28	P	R	ug/kg
SB	PEST	SB-41-0.5-1.5-3	Endosulfan II (beta)	33213-65-9	13	EP	R	ug/kg
SB	PEST	SB-41-0.5-1.5-3	Endrin ketone	53494-70-5	10	P	R	ug/kg
SB	PEST	SB-41-0.5-1.5-3	Heptachlor Epoxide	1024-57-3	300	EP	R	ug/kg
SB	PEST	SB-41-12.5-13.5-3	Chlordane - beta	5103-74-2	56	EP	R	ug/kg
SB	PEST	SB-41-12.5-13.5-3	Endrin ketone	53494-70-5	44	P	R	ug/kg
SB	PEST	SB-41-12.5-13.5-3	Methoxychlor	72-43-5	120	P	R	ug/kg
SB	PEST	SB-41-30.5-31.5-3	Chlordane - alpha	5103-71-9	8	P	R	ug/kg
SB	PEST	SB-41-30.5-31.5-3	Chlordane - beta	5103-74-2	5.6	EP	R	ug/kg
SB	PEST	SB-41-30.5-31.5-3	Heptachlor	76-44-8	15	P	R	ug/kg
SB	PEST	SB-41-30.5-31.5-3	Heptachlor Epoxide	1024-57-3	4.7	EP	R	ug/kg
SB	PEST	SB-42-0.5-1.5-3	Endosulfan Sulfate	1031-07-8	5.1	P	R	ug/kg
SB	PEST	SB-42-0.5-1.5-3	Heptachlor Epoxide	1024-57-3	2.7	P	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	Aldrin	309-00-2	8.9	P	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	BHC, alpha	319-84-6	3.8	P	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	Chlordane - alpha	5103-71-9	20	EP	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	Chlordane - beta	5103-74-2	29	EP	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	Endosulfan I (alpha)	959-98-8	6.4	P	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	Endrin	72-20-8	8.3	P	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	Heptachlor	76-44-8	20	P	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	Heptachlor Epoxide	1024-57-3	6.9	EP	R	ug/kg
SB	PEST	SB-42-2.0-3.0-3	Methoxychlor	72-43-5	63	P	R	ug/kg
SB	PEST	SB-43-0.5-1.5-3	Chlordane - beta	5103-74-2	6.4	P	R	ug/kg
SB	PEST	SB-43-0.5-1.5-3	DDE-4,4	72-55-9	5.7	P	R	ug/kg
SB	PEST	SB-43-0.5-1.5-3	Endrin ketone	53494-70-5	9	P	R	ug/kg
SB	PEST	SB-43-0.5-1.5-3	Heptachlor Epoxide	1024-57-3	3.5	P	R	ug/kg
SB	PEST	SB-43-11.5-12.5-3	Aldrin	309-00-2	18	EP	R	ug/kg
SB	PEST	SB-43-11.5-12.5-3	BHC, beta	319-85-7	35	P	R	ug/kg
SB	PEST	SB-43-11.5-12.5-3	BHC, gamma (Lindane)	58-89-9	5.7	EP	R	ug/kg
SB	PEST	SB-43-11.5-12.5-3	Chlordane - beta	5103-74-2	9.3	EP	R	ug/kg
SB	PEST	SB-43-11.5-12.5-3	DDE-4,4	72-55-9	4.4	P	R	ug/kg
SB	PEST	SB-43-11.5-12.5-3	Endosulfan Sulfate	1031-07-8	7	EP	R	ug/kg
SB	PEST	SB-43-11.5-12.5-3	Endrin Aldehyde	7421-93-4	6	P	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	PEST	SB-43-11.5-12.5-3	Heptachlor	76-44-8	19	P	R	ug/kg
SB	PEST	SB-43-11.5-12.5-3	Methoxychlor	72-43-5	53	P	R	ug/kg
SB	PEST	SB-43-15.0-16.0-3	Chlordane - beta	5103-74-2	2.9	EP	R	ug/kg
SB	PEST	SB-43-15.0-16.0-3	Endosulfan Sulfate	1031-07-8	5.2	P	R	ug/kg
SB	PEST	SB-43-15.0-16.0-3	Heptachlor	76-44-8	3.6	P	R	ug/kg
SB	PEST	SB-43-15.0-16.0-3	Heptachlor Epoxide	1024-57-3	2.4	EP	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	BHC, beta	319-85-7	51	EP	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	BHC, gamma (Lindane)	58-89-9	7.4	P	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	Chlordane - alpha	5103-71-9	11	P	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	Chlordane - beta	5103-74-2	100	EP	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	DDD-4,4	72-54-8	29	P	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	Endosulfan I (alpha)	959-98-8	22	P	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	Endosulfan II (beta)	33213-65-9	9.9	EP	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	Endrin Aldehyde	7421-93-4	9.7	P	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	Heptachlor	76-44-8	16	P	R	ug/kg
SB	PEST	SB-44-0.5-1.0-3	Heptachlor Epoxide	1024-57-3	43	EP	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Aldrin	309-00-2	14	EP	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	BHC, alpha	319-84-6	5.2	P	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	BHC, delta	319-86-8	17	P	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Chlordane - alpha	5103-71-9	7.4	P	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Chlordane - beta	5103-74-2	9.6	EP	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Dieldrin	60-57-1	21	P	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Endosulfan I (alpha)	959-98-8	6.9	P	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Endosulfan II (beta)	33213-65-9	14	P	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Endosulfan Sulfate	1031-07-8	6.8	P	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Heptachlor Epoxide	1024-57-3	7.1	EP	R	ug/kg
SB	PEST	SB-45-15.7-16.2-3	Methoxychlor	72-43-5	27	P	R	ug/kg
SB	PEST	SB-45-2.0-2.5-3	Chlordane - alpha	5103-71-9	6.6	P	R	ug/kg
SB	PEST	SB-45-2.0-2.5-3	Chlordane - beta	5103-74-2	11	EP	R	ug/kg
SB	PEST	SB-45-2.0-2.5-3	Heptachlor Epoxide	1024-57-3	8.1	EP	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Aldrin	309-00-2	3.7	P	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	BHC, alpha	319-84-6	6.6	P	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	BHC, gamma (Lindane)	58-89-9	8.8	P	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Chlordane - alpha	5103-71-9	5.6	P	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Chlordane - beta	5103-74-2	9.4	EP	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Endosulfan I (alpha)	959-98-8	4.3	P	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Endosulfan II (beta)	33213-65-9	6.5	P	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Endrin ketone	53494-70-5	11	P	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Heptachlor	76-44-8	22	P	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Heptachlor Epoxide	1024-57-3	4.9	EP	R	ug/kg
SB	PEST	SB-45-6.5-7.0-3	Methoxychlor	72-43-5	24	JP	R	ug/kg
SB	PEST	SB-46-0.5-1.5-3	BHC, delta	319-86-8	4.7	P	R	ug/kg
SB	PEST	SB-46-0.5-1.5-3	Chlordane - beta	5103-74-2	11	EP	R	ug/kg
SB	PEST	SB-46-0.5-1.5-3	Endrin Aldehyde	7421-93-4	4.6	P	R	ug/kg
SB	PEST	SB-46-0.5-1.5-3	Heptachlor Epoxide	1024-57-3	8.1	EP	R	ug/kg

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Table 1
List of Rejected Results
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Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	PEST	SB-46-21.0-22.0-3	Aldrin	309-00-2	6.5	P	R	ug/kg
SB	PEST	SB-46-21.0-22.0-3	BHC, delta	319-86-8	4.1	P	R	ug/kg
SB	PEST	SB-46-21.0-22.0-3	BHC, gamma (Lindane)	58-89-9	5.1	P	R	ug/kg
SB	PEST	SB-46-21.0-22.0-3	Chlordane - beta	5103-74-2	9.5	EP	R	ug/kg
SB	PEST	SB-47-15.5-16.5-3	BHC, beta	319-85-7	27	P	R	ug/kg
SB	PEST	SB-47-15.5-16.5-3	BHC, delta	319-86-8	8.7	P	R	ug/kg
SB	PEST	SB-47-15.5-16.5-3	BHC, gamma (Lindane)	58-89-9	6	EP	R	ug/kg
SB	PEST	SB-47-15.5-16.5-3	Chlordane - alpha	5103-71-9	11	EP	R	ug/kg
SB	PEST	SB-47-15.5-16.5-3	Chlordane - beta	5103-74-2	13	EP	R	ug/kg
SB	PEST	SB-47-15.5-16.5-3	DDD-4,4	72-54-8	23	P	R	ug/kg
SB	PEST	SB-47-15.5-16.5-3	Endosulfan II (beta)	33213-65-9	9.2	P	R	ug/kg
SB	PEST	SB-47-15.5-16.5-3	Heptachlor	76-44-8	14	P	R	ug/kg
SB	PEST	SB-47-27.0-28.0-3	Aldrin	309-00-2	3	P	R	ug/kg
SB	PEST	SB-47-27.0-28.0-3	BHC, beta	319-85-7	17	P	R	ug/kg
SB	PEST	SB-47-27.0-28.0-3	Chlordane - beta	5103-74-2	16	EP	R	ug/kg
SB	PEST	SB-47-27.0-28.0-3	DDE-4,4	72-55-9	12	P	R	ug/kg
SB	PEST	SB-47-27.0-28.0-3	Dieldrin	60-57-1	7.7	P	R	ug/kg
SB	PEST	SB-47-27.0-28.0-3	Endrin ketone	53494-70-5	5.9	P	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	Chlordane - alpha	5103-71-9	4.1	P	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	Chlordane - beta	5103-74-2	4.9	EP	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	DDD-4,4	72-54-8	52	P	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	DDE-4,4	72-55-9	16	P	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	Dieldrin	60-57-1	13	P	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	Endosulfan I (alpha)	959-98-8	7.8	P	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	Endosulfan II (beta)	33213-65-9	15	EP	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	Endrin	72-20-8	9.4	P	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	Endrin ketone	53494-70-5	13	P	R	ug/kg
SB	PEST	SB-48-0.5-1.0-3	Heptachlor Epoxide	1024-57-3	22	EP	R	ug/kg
SB	PEST	SB-48-11.0-11.5-3	Aldrin	309-00-2	18	EP	R	ug/kg
SB	PEST	SB-48-11.0-11.5-3	BHC, beta	319-85-7	2.6	P	R	ug/kg
SB	PEST	SB-48-11.0-11.5-3	Chlordane - beta	5103-74-2	4.7	EP	R	ug/kg
SB	PEST	SB-48-11.0-11.5-3	Endosulfan I (alpha)	959-98-8	3.4	P	R	ug/kg
SB	PEST	SB-48-11.0-11.5-3	Heptachlor Epoxide	1024-57-3	6.8	EP	R	ug/kg
SB	PEST	SB-48-20-20.5	Aldrin	309-00-2	4.6	P	R	ug/kg
SB	PEST	SB-48-20-20.5	BHC, alpha	319-84-6	3.4	P	R	ug/kg
SB	PEST	SB-48-20-20.5	Chlordane - alpha	5103-71-9	2.2	P	R	ug/kg
SB	PEST	SB-48-20-20.5	Chlordane - beta	5103-74-2	2.6	EP	R	ug/kg
SB	PEST	SB-48-20-20.5	Endosulfan I (alpha)	959-98-8	2.3	P	R	ug/kg
SB	PEST	SB-48-20-20.5	Endrin Aldehyde	7421-93-4	5.5	P	R	ug/kg
SB	PEST	SB-48-20-20.5	Heptachlor	76-44-8	17	P	R	ug/kg
SB	PEST	SB-49-0.5-1.0-3	BHC, alpha	319-84-6	34	E	R	ug/kg
SB	PEST	SB-49-0.5-1.0-3	Chlordane - beta	5103-74-2	12	EP	R	ug/kg
SB	PEST	SB-49-0.5-1.0-3	Endosulfan II (beta)	33213-65-9	16	EP	R	ug/kg
SB	PEST	SB-49-0.5-1.0-3	Endrin	72-20-8	23	P	R	ug/kg
SB	PEST	SB-49-0.5-1.0-3	Heptachlor Epoxide	1024-57-3	16	EP	R	ug/kg

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Table 1
List of Rejected Results
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Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	PEST	SB-49-0.5-1.0-3	Methoxychlor	72-43-5	45	P	R	ug/kg
SB	PEST	SB-49-20.0-20.5-3	BHC, delta	319-86-8	2.8	P	R	ug/kg
SB	PEST	SB-49-20.0-20.5-3	BHC, gamma (Lindane)	58-89-9	2.4	P	R	ug/kg
SB	PEST	SB-49-20.0-20.5-3	Chlordane - beta	5103-74-2	5.5	EP	R	ug/kg
SB	PEST	SB-49-20.0-20.5-3	Endosulfan II (beta)	33213-65-9	7.8	P	R	ug/kg
SB	PEST	SB-49-20.0-20.5-3	Endrin	72-20-8	5.7	P	R	ug/kg
SB	PEST	SB-49-20.0-20.5-3	Endrin ketone	53494-70-5	15	P	R	ug/kg
SB	PEST	SB-49-20.0-20.5-3	Heptachlor Epoxide	1024-57-3	2.3	EP	R	ug/kg
SB	PEST	SB-49-20.0-20.5-3	Methoxychlor	72-43-5	24	P	R	ug/kg
SB	PEST	SB-50-0.5-1.5-3	Chlordane - beta	5103-74-2	29	EP	R	ug/kg
SB	PEST	SB-50-0.5-1.5-3	Heptachlor	76-44-8	5.7	P	R	ug/kg
SB	PEST	SB-50-0.5-1.5-3	Heptachlor Epoxide	1024-57-3	8.2	P	R	ug/kg
SB	PEST	SB-50-20.0-21.0-3	Aldrin	309-00-2	6.3	P	R	ug/kg
SB	PEST	SB-50-20.0-21.0-3	BHC, beta	319-85-7	13	P	R	ug/kg
SB	PEST	SB-50-20.0-21.0-3	BHC, delta	319-86-8	3.1	P	R	ug/kg
SB	PEST	SB-50-20.0-21.0-3	BHC, gamma (Lindane)	58-89-9	4.2	P	R	ug/kg
SB	PEST	SB-50-20.0-21.0-3	Chlordane - beta	5103-74-2	36	EP	R	ug/kg
SB	PEST	SB-50-20.0-21.0-3	Endosulfan II (beta)	33213-65-9	9.4	P	R	ug/kg
SB	PEST	SB-50-20.0-21.0-3	Endrin	72-20-8	10	P	R	ug/kg
SB	PEST	SB-50-20.0-21.0-3	Heptachlor Epoxide	1024-57-3	3.2	EP	R	ug/[illegible]
SB	PEST	SB-50-29.0-30.0-3	Chlordane - beta	5103-74-2	8.8	EP	R	ug/kg
SB	PEST	SB-50-29.0-30.0-3	DDD-4,4	72-54-8	5.7	P	R	ug/kg
SB	PEST	SB-50-29.0-30.0-3	DDE-4,4	72-55-9	6.9	P	R	ug/kg
SB	PEST	SB-50-29.0-30.0-3	Heptachlor Epoxide	1024-57-3	4.7	P	R	ug/kg
SB	PEST	SB-51-0.5-1.5-3	BHC, beta	319-85-7	39	EP	R	ug/kg
SB	PEST	SB-51-0.5-1.5-3	Chlordane - beta	5103-74-2	34	EP	R	ug/kg
SB	PEST	SB-51-0.5-1.5-3	Endosulfan I (alpha)	959-98-8	16	P	R	ug/kg
SB	PEST	SB-51-0.5-1.5-3	Endosulfan II (beta)	33213-65-9	19	P	R	ug/kg
SB	PEST	SB-51-0.5-1.5-3	Endrin	72-20-8	30	EP	R	ug/kg
SB	PEST	SB-51-0.5-1.5-3	Heptachlor	76-44-8	4.1	EP	R	ug/kg
SB	PEST	SB-51-0.5-1.5-3	Heptachlor Epoxide	1024-57-3	45	EP	R	ug/kg
SB	PEST	SB-51-0.5-1.5-3	Methoxychlor	72-43-5	27	P	R	ug/kg
SB	PEST	SB-51-16.0-17.0-3	Aldrin	309-00-2	13	P	R	ug/kg
SB	PEST	SB-51-16.0-17.0-3	BHC, beta	319-85-7	21	EP	R	ug/kg
SB	PEST	SB-51-16.0-17.0-3	BHC, gamma (Lindane)	58-89-9	16	P	R	ug/kg
SB	PEST	SB-51-16.0-17.0-3	Chlordane - beta	5103-74-2	15	EP	R	ug/kg
SB	PEST	SB-51-16.0-17.0-3	Endosulfan II (beta)	33213-65-9	6.9	P	R	ug/kg
SB	PEST	SB-51-16.0-17.0-3	Heptachlor Epoxide	1024-57-3	8.5	EP	R	ug/kg
SB	PEST	SB-51-25.0-26.0-3	Aldrin	309-00-2	4.7	P	R	ug/kg
SB	PEST	SB-51-25.0-26.0-3	BHC, beta	319-85-7	8.5	EP	R	ug/kg
SB	PEST	SB-51-25.0-26.0-3	BHC, gamma (Lindane)	58-89-9	3.9	P	R	ug/kg
SB	PEST	SB-51-25.0-26.0-3	Chlordane - beta	5103-74-2	8.1	EP	R	ug/kg
SB	PEST	SB-51-25.0-26.0-3	Dieldrin	60-57-1	14	P	R	ug/kg
SB	PEST	SB-51-25.0-26.0-3	Heptachlor Epoxide	1024-57-3	12	EP	R	ug/kg
SB	PEST	SB-52-13.5-14.4-3	Chlordane - alpha	5103-71-9	2.5	U	R	ug/[illegible]

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Table 1
List of Rejected Results
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Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	PEST	SB-52-13.5-14.4-3	Chlordane - beta	5103-74-2	12	EP	R	ug/kg
SB	PEST	SB-52-13.5-14.4-3	Heptachlor Epoxide	1024-57-3	3.6	P	R	ug/kg
SB	PEST	SB-52-13.5-14.4-3	Toxaphene	8001-35-2	250	U	R	ug/kg
SB	PEST	SB-52-16.3-17.3-3	BHC, delta	319-86-8	2.1	U	R	ug/kg
SB	PEST	SB-52-16.3-17.3-3	Chlordane - beta	5103-74-2	8.3	EP	R	ug/kg
SB	PEST	SB-52-16.3-17.3-3	Heptachlor Epoxide	1024-57-3	2.2	P	R	ug/kg
SB	PEST	SB-52-16.3-17.3-3	Toxaphene	8001-35-2	210	U	R	ug/kg
SB	PEST	SB-54-13-5-14.5-3	BHC, delta	319-86-8	2	U	R	ug/kg
SB	PEST	SB-54-13-5-14.5-3	BHC, gamma (Lindane)	58-89-9	2	U	R	ug/kg
SB	PEST	SB-54-13-5-14.5-3	Chlordane - alpha	5103-71-9	2	U	R	ug/kg
SB	PEST	SB-54-13-5-14.5-3	Chlordane - beta	5103-74-2	15	EP	R	ug/kg
SB	PEST	SB-54-13-5-14.5-3	DDE-4,4	72-55-9	4.1	P	R	ug/kg
SB	PEST	SB-54-13-5-14.5-3	Dieldrin	60-57-1	5.1	P	R	ug/kg
SB	PEST	SB-54-13-5-14.5-3	Endrin ketone	53494-70-5	8.5	P	R	ug/kg
SB	PEST	SB-54-13-5-14.5-3	Toxaphene	8001-35-2	200	U	R	ug/kg
SB	PEST	SB-55-17.5-18.5-3	Chlordane - beta	5103-74-2	16	EP	R	ug/kg
SB	PEST	SB-55-17.5-18.5-3	DDT-4,4	50-29-3	4.6	P	R	ug/kg
SB	PEST	SB-55-17.5-18.5-3	Endrin ketone	53494-70-5	5.9	P	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	Aldrin	309-00-2	7.9	P	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	BHC, beta	319-85-7	7.3	EP	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	Chlordane - beta	5103-74-2	49	EP	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	DDE-4,4	72-55-9	33	EP	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	DDT-4,4	50-29-3	64	EP	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	Dieldrin	60-57-1	15	EP	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	Endosulfan I (alpha)	959-98-8	7	P	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	Endosulfan II (beta)	33213-65-9	7.2	P	R	ug/kg
SB	PEST	SB-55-2.2-3.2-3	Heptachlor Epoxide	1024-57-3	10	P	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	BHC, beta	319-85-7	11	EP	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	BHC, delta	319-86-8	2.3	U	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	BHC, gamma (Lindane)	58-89-9	2.3	U	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	Chlordane - alpha	5103-71-9	9.8	EP	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	Chlordane - beta	5103-74-2	50	EP	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	DDD-4,4	72-54-8	14	EP	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	DDT-4,4	50-29-3	6	P	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	Endrin Aldehyde	7421-93-4	40	EP	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	Endrin ketone	53494-70-5	13	P	R	ug/kg
SB	PEST	SB-56-15.5-16.5-3	Toxaphene	8001-35-2	230	U	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Chlordane - alpha	5103-71-9	12	EP	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	DDD-4,4	72-54-8	14	EP	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Endosulfan I (alpha)	959-98-8	3.7	P	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Endosulfan II (beta)	33213-65-9	26	P	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Endosulfan Sulfate	1031-07-8	5.6	P	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Endrin	72-20-8	10	EP	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Endrin Aldehyde	7421-93-4	47	EP	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Endrin ketone	53494-70-5	13	P	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	PEST	SB-56-6 4-7.4-3	Heptachlor	76-44-8	3	EPB	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Heptachlor Epoxide	1024-57-3	3.4	P	R	ug/kg
SB	PEST	SB-56-6 4-7.4-3	Methoxychlor	72-43-5	59	P	R	ug/kg
SB	SVOA	D-3-05-14-09-05	Hexachlorocyclopentadiene	77-47-4	200	U	R	ug/kg
SB	SVOA	D-3-05-14-09-05	Phthalate, di-n-octyl	117-84-0	200	U	R	ug/kg
SB	SVOA	MW-20S-0.5-1.5-3	Hexachlorocyclopentadiene	77-47-4	210	U	R	ug/kg
SB	SVOA	MW-20S-0.5-1.5-3	Phthalate, di-n-octyl	117-84-0	210	U	R	ug/kg
SB	SVOA	MW-20S-15.0-16.0-3	Phthalate, di-n-octyl	117-84-0	260	U	R	ug/kg
SB	SVOA	MW-20S-26.0-27.0-3	Dibenzo(a,h)anthracene	53-70-3	1100	U	R	ug/kg
SB	SVOA	MW-20S-26.0-27.0-3	Hexachlorocyclopentadiene	77-47-4	1100	U	R	ug/kg
SB	SVOA	MW-20S-26.0-27.0-3	Phthalate, di-n-octyl	117-84-0	1100	U	R	ug/kg
SB	VOA	D-3-05-06-09-01	Dioxane, 1,4-	123-91-1	8900	U	R	ug/kg
SB	VOA	D-3-05-08-09-02	Bromoform	75-25-2	6.4	U	R	ug/kg
SB	VOA	D-3-05-08-09-02	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.4	U	R	ug/kg
SB	VOA	D-3-05-08-09-02	Dichlorobenzene-1,2	95-50-1	6.4	U	R	ug/kg
SB	VOA	D-3-05-08-09-02	Dichlorobenzene-1,3	541-73-1	6.4	U	R	ug/kg
SB	VOA	D-3-05-08-09-02	Dichlorobenzene-1,4	106-46-7	6.4	U	R	ug/kg
SB	VOA	D-3-05-08-09-02	Dioxane, 1,4-	123-91-1	130	U	R	ug/kg
SB	VOA	D-3-05-08-09-02	Trichlorobenzene-1,2,3	87-61-6	6.4	U	R	ug/kg
SB	VOA	D-3-05-08-09-02	Trichlorobenzene-1,2,4	120-82-1	6.4	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Benzene	71-43-2	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Bromoform	75-25-2	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Carbon tetrachloride	56-23-5	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Chlorobenzene	108-90-7	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Cyclohexane	110-82-7	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dibromochloromethane	124-48-1	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dibromoethane-1,2	106-93-4	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dichlorobenzene-1,2	95-50-1	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dichlorobenzene-1,3	541-73-1	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dichlorobenzene-1,4	106-46-7	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dichlorobromomethane	75-27-4	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dichloropropane-1,2	78-87-5	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dichloropropene-1,3 cis	10061-01-5	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dichloropropene-1,3 trans	10061-02-6	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Dioxane, 1,4-	123-91-1	130	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Ethylbenzene	100-41-4	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Hexanone-2	591-78-6	13	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Isopropylbenzene	98-82-8	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Methyl cyclohexane	108-87-2	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	13	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Styrene	100-42-5	6.5	U	R	ug/kg

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Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	D-3-05-08-09-03	Tetrachloroethane-1,1,2,2	79-34-5	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Tetrachloroethylene	127-18-4	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Toluene	108-88-3	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Trichlorobenzene-1,2,3	87-61-6	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Trichlorobenzene-1,2,4	120-82-1	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Trichloroethane-1,1,1	71-55-6	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Trichloroethane-1,1,2	79-00-5	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Trichloroethylene	79-01-6	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	Xylene-o	95-47-6	6.5	U	R	ug/kg
SB	VOA	D-3-05-08-09-03	XYLENES, M & P	179601-23-1	6.5	U	R	ug/kg
SB	VOA	D-3-05-11-09-04	Dioxane, 1,4-	123-91-1	7100	U	R	ug/kg
SB	VOA	D-3-05-14-09-05	Bromoform	75-25-2	5.1	U	R	ug/kg
SB	VOA	D-3-05-14-09-05	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.1	U	R	ug/kg
SB	VOA	D-3-05-14-09-05	Dichlorobenzene-1,2	95-50-1	5.1	U	R	ug/kg
SB	VOA	D-3-05-14-09-05	Dichlorobenzene-1,3	541-73-1	5.1	U	R	ug/kg
SB	VOA	D-3-05-14-09-05	Dichlorobenzene-1,4	106-46-7	5.1	U	R	ug/kg
SB	VOA	D-3-05-14-09-05	Dioxane, 1,4-	123-91-1	100	U	R	ug/kg
SB	VOA	D-3-05-14-09-05	Trichlorobenzene-1,2,3	87-61-6	5.1	U	R	ug/kg
SB	VOA	D-3-05-14-09-05	Trichlorobenzene-1,2,4	120-82-1	5.1	U	R	ug/kg
SB	VOA	MW-18S-0.5-1.5-3	Dioxane, 1,4-	123-91-1	110	U	R	ug/kg
SB	VOA	MW-18S-10.6-11.6-3	Bromoform	75-25-2	11	U	R	ug/kg
SB	VOA	MW-18S-10.6-11.6-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	11	U	R	ug/kg
SB	VOA	MW-18S-10.6-11.6-3	Dichlorobenzene-1,2	95-50-1	11	U	R	ug/kg
SB	VOA	MW-18S-10.6-11.6-3	Dichlorobenzene-1,3	541-73-1	11	U	R	ug/kg
SB	VOA	MW-18S-10.6-11.6-3	Dichlorobenzene-1,4	106-46-7	11	U	R	ug/kg
SB	VOA	MW-18S-10.6-11.6-3	Dioxane, 1,4-	123-91-1	220	U	R	ug/kg
SB	VOA	MW-18S-10.6-11.6-3	Trichlorobenzene-1,2,3	87-61-6	11	U	R	ug/kg
SB	VOA	MW-18S-10.6-11.6-3	Trichlorobenzene-1,2,4	120-82-1	11	U	R	ug/kg
SB	VOA	MW-18S-5.5-6.5-3	Dioxane, 1,4-	123-91-1	8000	U	R	ug/kg
SB	VOA	MW-19S-0.5-1.5-3	Bromoform	75-25-2	7	U	R	ug/kg
SB	VOA	MW-19S-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	7	U	R	ug/kg
SB	VOA	MW-19S-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	7	U	R	ug/kg
SB	VOA	MW-19S-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	7	U	R	ug/kg
SB	VOA	MW-19S-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	7	U	R	ug/kg
SB	VOA	MW-19S-0.5-1.5-3	Dioxane, 1,4-	123-91-1	140	U	R	ug/kg
SB	VOA	MW-19S-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	7	U	R	ug/kg
SB	VOA	MW-19S-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	7	U	R	ug/kg
SB	VOA	MW-19S-26.0-27.0-3	Dioxane, 1,4-	123-91-1	38000	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Bromoform	75-25-2	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Carbon tetrachloride	56-23-5	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Chlorobenzene	108-90-7	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Cyclohexane	110-82-7	11	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
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Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	MW-19S-29.0-30.0-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dibromochloromethane	124-48-1	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dibromoethane-1,2	106-93-4	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dichlorobenzene-1,2	95-50-1	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dichlorobenzene-1,3	541-73-1	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dichlorobenzene-1,4	106-46-7	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dichlorobromomethane	75-27-4	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dichloropropane-1,2	78-87-5	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dichloropropene-1,3 cis	10061-01-5	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Dichloropropene-1,3 trans	10061-02-6	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Hexanone-2	591-78-6	21	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	21	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Styrene	100-42-5	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Tetrachloroethane-1,1,2,2	79-34-5	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Tetrachloroethylene	127-18-4	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Trichlorobenzene-1,2,3	87-61-6	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Trichlorobenzene-1,2,4	120-82-1	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Trichloroethane-1,1,1	71-55-6	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Trichloroethane-1,1,2	79-00-5	11	U	R	ug/kg
SB	VOA	MW-19S-29.0-30.0-3	Trichloroethylene	79-01-6	11	U	R	ug/kg
SB	VOA	MW-19S-6.0-6.8-3	Dioxane, 1,4-	123-91-1	6800	U	R	ug/kg
SB	VOA	MW-20S-0.5-1.5-3	Bromoform	75-25-2	5.3	U	R	ug/kg
SB	VOA	MW-20S-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.3	U	R	ug/kg
SB	VOA	MW-20S-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	5.3	U	R	ug/kg
SB	VOA	MW-20S-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	5.3	U	R	ug/kg
SB	VOA	MW-20S-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	5.3	U	R	ug/kg
SB	VOA	MW-20S-0.5-1.5-3	Dioxane, 1,4-	123-91-1	110	U	R	ug/kg
SB	VOA	MW-20S-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	5.3	U	R	ug/kg
SB	VOA	MW-20S-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	5.3	U	R	ug/kg
SB	VOA	MW-20S-15.0-16.0-3	Dioxane, 1,4-	123-91-1	13000	U	R	ug/kg
SB	VOA	MW-20S-26.0-27.0-3	Dioxane, 1,4-	123-91-1	6900	U	R	ug/kg
SB	VOA	SB-39-0.5-1.5-3	Bromoform	75-25-2	6.1	U	R	ug/kg
SB	VOA	SB-39-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.1	U	R	ug/kg
SB	VOA	SB-39-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	6.1	U	R	ug/kg
SB	VOA	SB-39-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	6.1	U	R	ug/kg
SB	VOA	SB-39-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	6.1	U	R	ug/kg
SB	VOA	SB-39-0.5-1.5-3	Dioxane, 1,4-	123-91-1	120	U	R	ug/kg
SB	VOA	SB-39-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	6.1	U	R	ug/kg
SB	VOA	SB-39-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	6.1	U	R	ug/kg
SB	VOA	SB-39-10.5-11.5-3	Dioxane, 1,4-	123-91-1	7300	U	R	ug/kg
SB	VOA	SB-39-5.0-6.0-3	Dioxane, 1,4-	123-91-1	9600	U	R	ug/kg

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Table 1
List of Rejected Results
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Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-40-0.5-1.5-3	Bromoform	75-25-2	6.3	U	R	ug/kg
SB	VOA	SB-40-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.3	U	R	ug/kg
SB	VOA	SB-40-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	6.3	U	R	ug/kg
SB	VOA	SB-40-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	6.3	U	R	ug/kg
SB	VOA	SB-40-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	6.3	U	R	ug/kg
SB	VOA	SB-40-0.5-1.5-3	Dioxane, 1,4-	123-91-1	130	U	R	ug/kg
SB	VOA	SB-40-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	6.3	U	R	ug/kg
SB	VOA	SB-40-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	6.3	U	R	ug/kg
SB	VOA	SB-40-14.1-15.1-3	Dioxane, 1,4-	123-91-1	6800	U	R	ug/kg
SB	VOA	SB-40-6.5-7.5-3	Dioxane, 1,4-	123-91-1	9600	U	R	ug/kg
SB	VOA	SB-41-0.5-1.5-3	Dioxane, 1,4-	123-91-1	7900	U	R	ug/kg
SB	VOA	SB-41-12.5-13.5-3	Dioxane, 1,4-	123-91-1	6800	U	R	ug/kg
SB	VOA	SB-41-30.5-31.5-3	Dioxane, 1,4-	123-91-1	14000	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Benzene	71-43-2	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Bromoform	75-25-2	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Carbon tetrachloride	56-23-5	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Chlorobenzene	108-90-7	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Cyclohexane	110-82-7	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dibromochloromethane	124-48-1	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dibromoethane-1,2	106-93-4	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dichlorobromomethane	75-27-4	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dichloropropane-1,2	78-87-5	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dichloropropene-1,3 cis	10061-01-5	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dichloropropene-1,3 trans	10061-02-6	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Dioxane, 1,4-	123-91-1	110	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Ethylbenzene	100-41-4	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Hexanone-2	591-78-6	11	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Isopropylbenzene	98-82-8	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Methyl cyclohexane	108-87-2	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	11	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Styrene	100-42-5	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Tetrachloroethane-1,1,2,2	79-34-5	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Trichloroethane-1,1,1	71-55-6	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Trichloroethane-1,1,2	79-00-5	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Trichloroethylene	79-01-6	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	Xylene-o	95-47-6	5.5	U	R	ug/kg
SB	VOA	SB-42-0.5-1.5-3	XYLENES, M & P	179601-23-1	5.5	U	R	ug/kg
SB	VOA	SB-42-2.0-3.0-3	Dioxane, 1,4-	123-91-1	7000	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-42-32-33-3	Dioxane, 1,4-	123-91-1	110	U	R	ug/kg
SB	VOA	SB-43-0.5-1.5-3	Bromoform	75-25-2	5.2	U	R	ug/kg
SB	VOA	SB-43-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.2	U	R	ug/kg
SB	VOA	SB-43-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	5.2	U	R	ug/kg
SB	VOA	SB-43-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	5.2	U	R	ug/kg
SB	VOA	SB-43-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	5.2	U	R	ug/kg
SB	VOA	SB-43-0.5-1.5-3	Dioxane, 1,4-	123-91-1	100	U	R	ug/kg
SB	VOA	SB-43-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	5.2	U	R	ug/kg
SB	VOA	SB-43-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	5.2	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Bromoform	75-25-2	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Carbon tetrachloride	56-23-5	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Cyclohexane	110-82-7	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dibromochloromethane	124-48-1	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dibromoethane-1,2	106-93-4	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dichlorobenzene-1,2	95-50-1	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dichlorobenzene-1,3	541-73-1	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dichlorobenzene-1,4	106-46-7	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dichlorobromomethane	75-27-4	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dichloropropane-1,2	78-87-5	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dichloropropene-1,3 cis	10061-01-5	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dichloropropene-1,3 trans	10061-02-6	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Dioxane, 1,4-	123-91-1	130	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Hexanone-2	591-78-6	13	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	13	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Styrene	100-42-5	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Tetrachloroethane-1,1,2,2	79-34-5	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Tetrachloroethylene	127-18-4	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Trichlorobenzene-1,2,3	87-61-6	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Trichlorobenzene-1,2,4	120-82-1	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Trichloroethane-1,1,1	71-55-6	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Trichloroethane-1,1,2	79-00-5	6.7	U	R	ug/kg
SB	VOA	SB-43-11.5-12.5-3	Trichloroethylene	79-01-6	6.7	U	R	ug/kg
SB	VOA	SB-43-15.0-16.0-3	Dioxane, 1,4-	123-91-1	8600	U	R	ug/kg
SB	VOA	SB-44-0.5-1.0-3	Bromoform	75-25-2	5.5	U	R	ug/kg
SB	VOA	SB-44-0.5-1.0-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.5	U	R	ug/kg
SB	VOA	SB-44-0.5-1.0-3	Dichlorobenzene-1,2	95-50-1	5.5	U	R	ug/kg
SB	VOA	SB-44-0.5-1.0-3	Dichlorobenzene-1,3	541-73-1	5.5	U	R	ug/kg
SB	VOA	SB-44-0.5-1.0-3	Dichlorobenzene-1,4	106-46-7	5.5	U	R	ug/kg
SB	VOA	SB-44-0.5-1.0-3	Dioxane, 1,4-	123-91-1	110	U	R	ug/kg
SB	VOA	SB-44-0.5-1.0-3	Trichlorobenzene-1,2,3	87-61-6	5.5	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-44-0.5-1.0-3	Trichlorobenzene-1,2,4	120-82-1	5.5	U	R	ug/kg
SB	VOA	SB-44-13.1-13.6-3	Dioxane, 1,4-	123-91-1	7200	U	R	ug/kg
SB	VOA	SB-44-6.2-6.7-3	Dioxane, 1,4-	123-91-1	6800	U	R	ug/kg
SB	VOA	SB-45-15.7-16.2-3	Dioxane, 1,4-	123-91-1	8500	U	R	ug/kg
SB	VOA	SB-45-2.0-2.5-3	Dioxane, 1,4-	123-91-1	11000	U	R	ug/kg
SB	VOA	SB-45-6.5-7.0-3	Dioxane, 1,4-	123-91-1	13000	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Benzene	71-43-2	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Bromoform	75-25-2	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Carbon tetrachloride	56-23-5	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Chlorobenzene	108-90-7	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Cyclohexane	110-82-7	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dibromochloromethane	124-48-1	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dibromoethane-1,2	106-93-4	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dichlorobromomethane	75-27-4	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dichloropropane-1,2	78-87-5	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dichloropropene-1,3 cis	10061-01-5	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dichloropropene-1,3 trans	10061-02-6	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Dioxane, 1,4-	123-91-1	110	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Ethylbenzene	100-41-4	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Hexanone-2	591-78-6	11	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Isopropylbenzene	98-82-8	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Methyl cyclohexane	108-87-2	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	11	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Styrene	100-42-5	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Tetrachloroethane-1,1,2,2	79-34-5	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Tetrachloroethylene	127-18-4	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Toluene	108-88-3	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Trichloroethane-1,1,1	71-55-6	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Trichloroethane-1,1,2	79-00-5	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Trichloroethylene	79-01-6	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	Xylene-o	95-47-6	5.3	U	R	ug/kg
SB	VOA	SB-46-0.5-1.5-3	XYLENES, M & P	179601-23-1	5.3	U	R	ug/kg
SB	VOA	SB-46-21.0-22.0-3	Dioxane, 1,4-	123-91-1	9400	U	R	ug/kg
SB	VOA	SB-46-49.0-50.0-3	Dioxane, 1,4-	123-91-1	91	U	R	ug/kg
SB	VOA	SB-47-0.5-1.5-3	Bromoform	75-25-2	5.1	U	R	ug/kg
SB	VOA	SB-47-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.1	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-47-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	5.1	U	R	ug/kg
SB	VOA	SB-47-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	5.1	U	R	ug/kg
SB	VOA	SB-47-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	5.1	U	R	ug/kg
SB	VOA	SB-47-0.5-1.5-3	Dioxane, 1,4-	123-91-1	100	U	R	ug/kg
SB	VOA	SB-47-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	5.1	U	R	ug/kg
SB	VOA	SB-47-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	5.1	U	R	ug/kg
SB	VOA	SB-47-15.5-16.5-3	Dioxane, 1,4-	123-91-1	8300	U	R	ug/kg
SB	VOA	SB-47-27.0-28.0-3	Dioxane, 1,4-	123-91-1	8900	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Benzene	71-43-2	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Bromoform	75-25-2	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Carbon tetrachloride	56-23-5	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Chlorobenzene	108-90-7	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Cyclohexane	110-82-7	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dibromochloromethane	124-48-1	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dibromoethane-1,2	106-93-4	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dichlorobenzene-1,2	95-50-1	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dichlorobenzene-1,3	541-73-1	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dichlorobenzene-1,4	106-46-7	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dichlorobromomethane	75-27-4	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dichloropropane-1,2	78-87-5	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dichloropropene-1,3 cis	10061-01-5	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dichloropropene-1,3 trans	10061-02-6	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Dioxane, 1,4-	123-91-1	120	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Ethylbenzene	100-41-4	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Hexanone-2	591-78-6	12	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Isopropylbenzene	98-82-8	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Methyl cyclohexane	108-87-2	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	12	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Styrene	100-42-5	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Tetrachloroethane-1,1,2,2	79-34-5	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Tetrachloroethylene	127-18-4	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Toluene	108-88-3	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Trichlorobenzene-1,2,3	87-61-6	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Trichlorobenzene-1,2,4	120-82-1	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Trichloroethane-1,1,1	71-55-6	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Trichloroethane-1,1,2	79-00-5	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Trichloroethylene	79-01-6	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	Xylene-o	95-47-6	5.8	U	R	ug/kg
SB	VOA	SB-48-0.5-1.0-3	XYLENES, M & P	179601-23-1	5.8	U	R	ug/kg
SB	VOA	SB-48-11.0-11.5-3	Dioxane, 1,4-	123-91-1	9400	U	R	ug/kg
SB	VOA	SB-48-20-20.5	Dioxane, 1,4-	123-91-1	9000	U	R	ug/kg
SB	VOA	SB-49-0.5-1.0-3	Bromoform	75-25-2	6.6	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-49-0.5-1.0-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.6	U	R	ug/kg
SB	VOA	SB-49-0.5-1.0-3	Dichlorobenzene-1,2	95-50-1	6.6	U	R	ug/kg
SB	VOA	SB-49-0.5-1.0-3	Dichlorobenzene-1,3	541-73-1	6.6	U	R	ug/kg
SB	VOA	SB-49-0.5-1.0-3	Dichlorobenzene-1,4	106-46-7	6.6	U	R	ug/kg
SB	VOA	SB-49-0.5-1.0-3	Dioxane, 1,4-	123-91-1	130	U	R	ug/kg
SB	VOA	SB-49-0.5-1.0-3	Trichlorobenzene-1,2,3	87-61-6	6.6	U	R	ug/kg
SB	VOA	SB-49-0.5-1.0-3	Trichlorobenzene-1,2,4	120-82-1	6.6	U	R	ug/kg
SB	VOA	SB-49-15.1-15.6-3	Dioxane, 1,4-	123-91-1	120	U	R	ug/kg
SB	VOA	SB-49-20.0-20.5-3	Dioxane, 1,4-	123-91-1	110	U	R	ug/kg
SB	VOA	SB-50-0.5-1.5-3	Bromoform	75-25-2	5.2	U	R	ug/kg
SB	VOA	SB-50-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	5.2	U	R	ug/kg
SB	VOA	SB-50-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	5.2	U	R	ug/kg
SB	VOA	SB-50-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	5.2	U	R	ug/kg
SB	VOA	SB-50-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	5.2	U	R	ug/kg
SB	VOA	SB-50-0.5-1.5-3	Dioxane, 1,4-	123-91-1	100	U	R	ug/kg
SB	VOA	SB-50-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	5.2	U	R	ug/kg
SB	VOA	SB-50-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	5.2	U	R	ug/kg
SB	VOA	SB-50-20.0-21.0-3	Dioxane, 1,4-	123-91-1	7300	U	R	ug/kg
SB	VOA	SB-50-29.0-30.0-3	Dioxane, 1,4-	123-91-1	6300	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Bromoform	75-25-2	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Bromomethane	74-83-9	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Carbon disulfide	75-15-0	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Carbon tetrachloride	56-23-5	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Chlorobenzene	108-90-7	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Chlorobromomethane	74-97-5	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Chloroethane	75-00-3	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Chloroform	67-66-3	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Chloromethane	74-87-3	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Cyclohexane	110-82-7	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dibromochloromethane	124-48-1	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dibromoethane-1,2	106-93-4	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichlorobenzene-1,2	95-50-1	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichlorobenzene-1,3	541-73-1	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichlorobenzene-1,4	106-46-7	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichlorobromomethane	75-27-4	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichlorodifluoromethane	75-71-8	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichloroethane-1,1	75-34-3	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichloroethane-1,2	107-06-2	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichloroethene-1,2 trans	156-60-5	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichloroethylene-1,1	75-35-4	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichloroethylene-1,2 cis	156-59-2	6.3	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-51-0.5-1.5-3	Dichloropropane-1,2	78-87-5	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichloropropene-1,3 cis	10061-01-5	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dichloropropene-1,3 trans	10061-02-6	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Dioxane, 1,4-	123-91-1	130	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Ethylbenzene	100-41-4	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Hexanone-2	591-78-6	13	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Isopropylbenzene	98-82-8	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Methyl acetate	79-20-9	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Methyl cyclohexane	108-87-2	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Methyl ethyl ketone (2-butanone)	78-93-3	13	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	13	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Methyl tertiary butyl ether (MTBE)	1634-04-4	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Methylene chloride	75-09-2	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Styrene	100-42-5	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Tetrachloroethane-1,1,2,2	79-34-5	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Tetrachloroethylene	127-18-4	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Toluene	108-88-3	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Trichlorobenzene-1,2,3	87-61-6	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Trichlorobenzene-1,2,4	120-82-1	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Trichloroethane-1,1,1	71-55-6	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Trichloroethane-1,1,2	79-00-5	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Trichloroethylene	79-01-6	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Trichlorofluoromethane	75-69-4	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Vinyl chloride	75-01-4	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	Xylene-o	95-47-6	6.3	U	R	ug/kg
SB	VOA	SB-51-0.5-1.5-3	XYLENES, M & P	179601-23-1	6.3	U	R	ug/kg
SB	VOA	SB-51-16.0-17.0-3	Dioxane, 1,4-	123-91-1	17000	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Bromoform	75-25-2	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Carbon tetrachloride	56-23-5	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Cyclohexane	110-82-7	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dibromochloromethane	124-48-1	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dibromoethane-1,2	106-93-4	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dichlorobenzene-1,2	95-50-1	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dichlorobenzene-1,3	541-73-1	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dichlorobenzene-1,4	106-46-7	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dichlorobromomethane	75-27-4	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dichloropropane-1,2	78-87-5	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dichloropropene-1,3 cis	10061-01-5	6.6	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-51-25.0-26.0-3	Dichloropropene-1,3 trans	10061-02-6	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Dioxane, 1,4-	123-91-1	130	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Hexanone-2	591-78-6	13	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	13	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Styrene	100-42-5	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Tetrachloroethane-1,1,2,2	79-34-5	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Tetrachloroethylene	127-18-4	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Toluene	108-88-3	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Trichlorobenzene-1,2,3	87-61-6	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Trichlorobenzene-1,2,4	120-82-1	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Trichloroethane-1,1,1	71-55-6	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Trichloroethane-1,1,2	79-00-5	6.6	U	R	ug/kg
SB	VOA	SB-51-25.0-26.0-3	Trichloroethylene	79-01-6	6.6	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Acetone	67-64-1	730	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Benzene	71-43-2	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Bromoform	75-25-2	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Bromomethane	74-83-9	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Carbon disulfide	75-15-0	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Carbon tetrachloride	56-23-5	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Chlorobromomethane	74-97-5	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Chloroethane	75-00-3	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Chloroform	67-66-3	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Chloromethane	74-87-3	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dibromochloromethane	124-48-1	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dibromoethane-1,2	106-93-4	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichlorobenzene-1,3	541-73-1	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichlorobenzene-1,4	106-46-7	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichlorobromomethane	75-27-4	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichlorodifluoromethane	75-71-8	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichloroethane-1,1	75-34-3	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichloroethane-1,2	107-06-2	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichloroethene-1,2 trans	156-60-5	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichloroethylene-1,1	75-35-4	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichloroethylene-1,2 cis	156-59-2	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichloropropane-1,2	78-87-5	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichloropropene-1,3 cis	10061-01-5	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dichloropropene-1,3 trans	10061-02-6	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Dioxane, 1,4-	123-91-1	7300	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Hexanone-2	591-78-6	730	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Methyl acetate	79-20-9	360	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-52-16.3-17.3-3	Methyl ethyl ketone (2-butanone)	78-93-3	730	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	730	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Methyl tertiary butyl ether (MTBE)	1634-04-4	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Methylene chloride	75-09-2	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Styrene	100-42-5	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Tetrachloroethane-1,1,2,2	79-34-5	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Tetrachloroethylene	127-18-4	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Toluene	108-88-3	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Trichlorobenzene-1,2,3	87-61-6	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Trichloroethane-1,1,1	71-55-6	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Trichloroethane-1,1,2	79-00-5	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Trichloroethylene	79-01-6	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Trichlorofluoromethane	75-69-4	360	U	R	ug/kg
SB	VOA	SB-52-16.3-17.3-3	Vinyl chloride	75-01-4	360	U	R	ug/kg
SB	VOA	SB-53-13.5-14.5-3	Dioxane, 1,4-	123-91-1	120	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Bromoform	75-25-2	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Bromomethane	74-83-9	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Carbon disulfide	75-15-0	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Carbon tetrachloride	56-23-5	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Chlorobromomethane	74-97-5	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Chloroethane	75-00-3	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Chloromethane	74-87-3	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dibromochloromethane	124-48-1	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dibromoethane-1,2	106-93-4	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichlorobromomethane	75-27-4	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichlorodifluoromethane	75-71-8	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichloroethane-1,1	75-34-3	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichloroethane-1,2	107-06-2	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichloroethene-1,2 trans	156-60-5	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichloroethylene-1,1	75-35-4	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichloroethylene-1,2 cis	156-59-2	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichloropropane-1,2	78-87-5	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichloropropene-1,3 cis	10061-01-5	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dichloropropene-1,3 trans	10061-02-6	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Dioxane, 1,4-	123-91-1	6600	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Hexanone-2	591-78-6	660	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Methyl ethyl ketone (2-butanone)	78-93-3	660	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-54-13-5-14.5-3	Methyl isobutyl ketone (4-methyl-2-pentanone)	108-10-1	660	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Methyl tertiary butyl ether (MTBE)	1634-04-4	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Methylene chloride	75-09-2	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Styrene	100-42-5	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Tetrachloroethane-1,1,2,2	79-34-5	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Trichloroethane-1,1,1	71-55-6	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Trichloroethane-1,1,2	79-00-5	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Trichlorofluoromethane	75-69-4	330	U	R	ug/kg
SB	VOA	SB-54-13-5-14.5-3	Vinyl chloride	75-01-4	330	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Acetone	67-64-1	880	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Bromoform	75-25-2	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Bromomethane	74-83-9	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Carbon tetrachloride	56-23-5	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Chlorobromomethane	74-97-5	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Chloroethane	75-00-3	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Chloroform	67-66-3	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Chloromethane	74-87-3	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Cyclohexane	110-82-7	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dibromochloromethane	124-48-1	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dibromoethane-1,2	106-93-4	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichlorobromomethane	75-27-4	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichlorodifluoromethane	75-71-8	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichloroethane-1,1	75-34-3	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichloroethane-1,2	107-06-2	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichloroethene-1,2 trans	156-60-5	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichloroethylene-1,1	75-35-4	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichloropropane-1,2	78-87-5	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichloropropene-1,3 cis	10061-01-5	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dichloropropene-1,3 trans	10061-02-6	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Dioxane, 1,4-	123-91-1	8800	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Freon 113 (1,1,2-trichloro-1,2-trifluoroethane)	76-13-1	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Hexanone-2	591-78-6	880	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Methyl tertiary butyl ether (MTBE)	1634-04-4	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Methylene chloride	75-09-2	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Styrene	100-42-5	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Tetrachloroethane-1,1,2,2	79-34-5	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Trichlorobenzene-1,2,3	87-61-6	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Trichloroethane-1,1,1	71-55-6	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Trichloroethane-1,1,2	79-00-5	440	U	R	ug/kg

Appendix
Table 1
List of Rejected Results
Diamond Head RI/FS
Operable Unit 2

Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SB	VOA	SB-55-2.2-3.2-3	Trichlorofluoromethane	75-69-4	440	U	R	ug/kg
SB	VOA	SB-55-2.2-3.2-3	Vinyl chloride	75-01-4	440	U	R	ug/kg
SB	VOA	SB-56-15.5-16.5-3	Dioxane, 1,4-	123-91-1	18000	U	R	ug/kg
SB	VOA	SB-56-6 4-7.4-3	Dioxane, 1,4-	123-91-1	19000	U	R	ug/kg
SE	METAL	D-3-05-15-09-01	Mercury	7439-97-6	590		R	ug/kg
SE	PEST	D-3-05-15-09-01	Endosulfan Sulfate	1031-07-8	11	P	R	ug/kg
SE	PEST	D-3-05-15-09-01	Endrin ketone	53494-70-5	8.9	P	R	ug/kg
SE	PEST	SD-30-0.0-0.5-3	BHC, beta	319-85-7	8.2	P	R	ug/kg
SE	PEST	SD-30-0.0-0.5-3	Chlordane - beta	5103-74-2	6.7	EP	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	Aldrin	309-00-2	8.6	P	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	BHC, beta	319-85-7	30	P	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	BHC, delta	319-86-8	7.1	P	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	BHC, gamma (Lindane)	58-89-9	6.5	P	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	Chlordane - beta	5103-74-2	26	EP	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	DDD-4,4	72-54-8	19	EP	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	Endrin ketone	53494-70-5	23	P	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	Heptachlor	76-44-8	5.5	P	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	Heptachlor Epoxide	1024-57-3	12	P	R	ug/kg
SE	PEST	SD-35-0.0-0.5-3	Methoxychlor	72-43-5	45	P	R	ug/kg
SE	SVOA	D-3-05-15-09-01	Hexachlorocyclopentadiene	77-47-4	410	U	R	ug/kg
SE	SVOA	SD-26-0.0-0.5-3	Hexachlorocyclopentadiene	77-47-4	890	U	R	ug/kg
SE	SVOA	SD-26-0.0-0.5-3	Phthalate, di-n-octyl	117-84-0	890	U	R	ug/kg
SE	SVOA	SD-30-0.0-0.5-3	Hexachlorocyclopentadiene	77-47-4	680	U	R	ug/kg
SE	SVOA	SD-30-0.0-0.5-3	Phthalate, di-n-octyl	117-84-0	680	U	R	ug/kg
SE	SVOA	SD-33-0.0-0.5-3	Hexachlorocyclopentadiene	77-47-4	410	U	R	ug/kg
SE	SVOA	SD-34-0.0-0.5-3	Hexachlorocyclopentadiene	77-47-4	260	U	R	ug/kg
SE	SVOA	SD-35-0.0-0.5-3	Dibenzo(a,h)anthracene	53-70-3	29000	U	R	ug/kg
SE	SVOA	SD-35-0.0-0.5-3	Hexachlorocyclopentadiene	77-47-4	29000	U	R	ug/kg
SE	SVOA	SD-35-0.0-0.5-3	Phthalate, di-n-octyl	117-84-0	29000	U	R	ug/kg
SE	SVOA	SD-37-0.0-0.5-3	Hexachlorocyclopentadiene	77-47-4	230	U	R	ug/kg
SE	SVOA	SD-38-0.0-0.5-3	Hexachlorocyclopentadiene	77-47-4	400	U	R	ug/kg
SE	VOA	D-3-05-27-09-02	Dioxane, 1,4-	123-91-1	120	U	R	ug/kg
SE	VOA	SD-26-0.0-0.5-3	Bromoform	75-25-2	29	U	R	ug/kg
SE	VOA	SD-26-0.0-0.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	29	U	R	ug/kg
SE	VOA	SD-26-0.0-0.5-3	Dioxane, 1,4-	123-91-1	570	U	R	ug/kg
SE	VOA	SD-30-0.0-0.5-3	Bromoform	75-25-2	13	U	R	ug/kg
SE	VOA	SD-30-0.0-0.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	13	U	R	ug/kg
SE	VOA	SD-30-0.0-0.5-3	Dichlorobenzene-1,3	541-73-1	13	U	R	ug/kg
SE	VOA	SD-30-0.0-0.5-3	Dioxane, 1,4-	123-91-1	260	U	R	ug/kg
SE	VOA	SD-33-0.0-0.5-3	Bromoform	75-25-2	10	U	R	ug/kg
SE	VOA	SD-33-0.0-0.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	10	U	R	ug/kg
SE	VOA	SD-33-0.0-0.5-3	Dichlorobenzene-1,2	95-50-1	10	U	R	ug/kg

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Table 1
List of Rejected Results
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Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
SE	VOA	SD-33-0.0-0.5-3	Dichlorobenzene-1,3	541-73-1	10	U	R	ug/kg
SE	VOA	SD-33-0.0-0.5-3	Dioxane, 1,4-	123-91-1	200	U	R	ug/kg
SE	VOA	SD-33-0.0-0.5-3	Trichlorobenzene-1,2,3	87-61-6	10	U	R	ug/kg
SE	VOA	SD-33-0.0-0.5-3	Trichlorobenzene-1,2,4	120-82-1	10	U	R	ug/kg
SE	VOA	SD-34-0.0-0.5-3	Dioxane, 1,4-	123-91-1	120	U	R	ug/kg
SE	VOA	SD-35-0.0-0.5-3	Dioxane, 1,4-	123-91-1	16000	U	R	ug/kg
SE	VOA	SD-37-0.0-0.5-3	Bromoform	75-25-2	8.4	U	R	ug/kg
SE	VOA	SD-37-0.0-0.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	8.4	U	R	ug/kg
SE	VOA	SD-37-0.0-0.5-3	Dichlorobenzene-1,3	541-73-1	8.4	U	R	ug/kg
SE	VOA	SD-37-0.0-0.5-3	Dioxane, 1,4-	123-91-1	170	U	R	ug/kg
SE	VOA	SD-38-0.0-0.5-3	Bromoform	75-25-2	8.4	U	R	ug/kg
SE	VOA	SD-38-0.0-0.5-3	DBCP (1,2-dibromo-3-chloropropane)	96-12-8	8.4	U	R	ug/kg
SE	VOA	SD-38-0.0-0.5-3	Dichlorobenzene-1,3	541-73-1	8.4	U	R	ug/kg
SE	VOA	SD-38-0.0-0.5-3	Dioxane, 1,4-	123-91-1	170	U	R	ug/kg
SE	VOA	SD-38-0.0-0.5-3	Trichlorobenzene-1,2,3	87-61-6	8.4	U	R	ug/kg
GW	METAL	D-3-05-29-09-3	Aluminum	7429-90-5	652		R	ug/L
GW	METAL	MW-07S-3	Aluminum	7429-90-5	212		R	ug/L
GW	METAL	MW-07S-3	Chromium	7440-47-3	21.6		R	ug/L
GW	METAL	MW-07S-3	Lead	7439-92-1	17.2		R	ug/L
GW	METAL	MW-20S-3	Lead	7439-92-1	13.7		R	ug/L
GW	PCB	MW-21S-3	Pcb-araclor 1016	12674-11-2	1	U	R	ug/L
GW	PCB	MW-21S-3	Pcb-araclor 1221	11104-28-2	1	U	R	ug/L
GW	PCB	MW-21S-3	Pcb-araclor 1232	11141-16-5	1	U	R	ug/L
GW	PCB	MW-21S-3	Pcb-araclor 1242	53469-21-9	1	U	R	ug/L
GW	PCB	MW-21S-3	Pcb-araclor 1248	12672-29-6	1	U	R	ug/L
GW	PCB	MW-21S-3	Pcb-araclor 1260	11096-82-5	1	U	R	ug/L
GW	PCB	MW-21S-3	Pcb-araclor 1262	37324-23-5	1	U	R	ug/L
GW	PCB	MW-21S-3	Pcb-araclor 1268	11100-14-4	1	U	R	ug/L
GW	PEST	MW-02S-3	Aldrin	309-00-2	0.05	U	R	ug/L
GW	PEST	MW-02S-3	BHC, alpha	319-84-6	0.05	U	R	ug/L
GW	PEST	MW-02S-3	BHC, beta	319-85-7	0.05	U	R	ug/L
GW	PEST	MW-02S-3	BHC, delta	319-86-8	0.05	U	R	ug/L
GW	PEST	MW-02S-3	BHC, gamma (Lindane)	58-89-9	0.05	U	R	ug/L
GW	PEST	MW-02S-3	Chlordane - alpha	5103-71-9	0.05	U	R	ug/L
GW	PEST	MW-02S-3	DDD-4,4	72-54-8	0.1	U	R	ug/L
GW	PEST	MW-02S-3	DDE-4,4	72-55-9	0.1	U	R	ug/L
GW	PEST	MW-02S-3	DDT-4,4	50-29-3	0.1	U	R	ug/L
GW	PEST	MW-02S-3	Dieldrin	60-57-1	0.1	U	R	ug/L
GW	PEST	MW-02S-3	Endosulfan I (alpha)	959-98-8	0.05	U	R	ug/L
GW	PEST	MW-02S-3	Endosulfan II (beta)	33213-65-9	0.1	U	R	ug/L
GW	PEST	MW-02S-3	Endosulfan Sulfate	1031-07-8	0.1	U	R	ug/L
GW	PEST	MW-02S-3	Endrin	72-20-8	0.1	U	R	ug/L
GW	PEST	MW-02S-3	Endrin ketone	53494-70-5	0.1	U	R	ug/L

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Table 1
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Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
GW	PEST	MW-02S-3	Heptachlor	76-44-8	0.05	U	R	ug/L
GW	PEST	MW-02S-3	Heptachlor Epoxide	1024-57-3	0.05	U	R	ug/L
GW	PEST	MW-02S-3	Methoxychlor	72-43-5	0.5	U	R	ug/L
GW	PEST	MW-02S-3	Toxaphene	8001-35-2	5	U	R	ug/L
GW	PEST	MW-12S-3	BHC, beta	319-85-7	0.37	EP	R	ug/L
GW	PEST	MW-12S-3	BHC, delta	319-86-8	0.05	P	R	ug/L
GW	PEST	MW-12S-3	Chlordane - beta	5103-74-2	0.5	EP	R	ug/L
GW	PEST	MW-12S-3	DDE-4,4	72-55-9	0.1	U	R	ug/L
GW	PEST	MW-12S-3	Endrin ketone	53494-70-5	0.1	U	R	ug/L
GW	PEST	MW-12S-3	Heptachlor	76-44-8	0.08	EP	R	ug/L
GW	PEST	MW-12S-3	Toxaphene	8001-35-2	5	U	R	ug/L
GW	PEST	MW-17S-3	BHC, gamma (Lindane)	58-89-9	0.21	P	R	ug/L
GW	PEST	MW-17S-3	Heptachlor	76-44-8	0.13	P	R	ug/L
GW	PEST	MW-21S-3	BHC, alpha	319-84-6	0.05	U	R	ug/L
GW	PEST	MW-21S-3	BHC, delta	319-86-8	0.05	U	R	ug/L
GW	PEST	MW-21S-3	BHC, gamma (Lindane)	58-89-9	0.05	U	R	ug/L
GW	PEST	MW-21S-3	DDD-4,4	72-54-8	0.1	U	R	ug/L
GW	PEST	MW-21S-3	DDE-4,4	72-55-9	0.1	U	R	ug/L
GW	PEST	MW-21S-3	Toxaphene	8001-35-2	5	U	R	ug/L
GW	SVOA	MW-18S-3	Benzo(a)pyrene	50-32-8	5	U	R	ug/L
GW	SVOA	MW-18S-3	Benzo(b)fluoranthene	205-99-2	5	U	R	ug/L
GW	SVOA	MW-18S-3	Benzo(g,h,I)perylene	191-24-2	5	U	R	ug/L
GW	SVOA	MW-18S-3	Benzo(k)fluoranthene	207-08-9	5	U	R	ug/L
GW	SVOA	MW-18S-3	Dibenzo(a,h)anthracene	53-70-3	5	U	R	ug/L
GW	SVOA	MW-18S-3	Indeno(1,2,3-cd)pyrene	193-39-5	5	U	R	ug/L
GW	SVOA	MW-18S-3	Phthalate, di-n-octyl	117-84-0	5	U	R	ug/L
GW	SVOA	MW-19S-3	Tetrachlorophenol-2,3,4,6	58-90-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Acenaphthene	83-32-9	5	U	R	ug/L
GW	SVOA	MW-21S-3	Acenaphthylene	208-96-8	5	U	R	ug/L
GW	SVOA	MW-21S-3	Acetophenone	98-86-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Anthracene	120-12-7	5	U	R	ug/L
GW	SVOA	MW-21S-3	Atrazine	1912-24-9	5	U	R	ug/L
GW	SVOA	MW-21S-3	Benzaldehyde	100-52-7	5	U	R	ug/L
GW	SVOA	MW-21S-3	Benzo(a)anthracene	56-55-3	5	U	R	ug/L
GW	SVOA	MW-21S-3	Benzo(a)pyrene	50-32-8	5	U	R	ug/L
GW	SVOA	MW-21S-3	Benzo(b)fluoranthene	205-99-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Benzo(g,h,I)perylene	191-24-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Benzo(k)fluoranthene	207-08-9	5	U	R	ug/L
GW	SVOA	MW-21S-3	Biphenyl	92-52-4	5	U	R	ug/L
GW	SVOA	MW-21S-3	Bromophenyl-4 Phenyl Ether	101-55-3	5	U	R	ug/L
GW	SVOA	MW-21S-3	Butylbenzyl phthalate	85-68-7	5	U	R	ug/L
GW	SVOA	MW-21S-3	Caprolactam	105-60-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Carbazole	86-74-8	5	U	R	ug/L
GW	SVOA	MW-21S-3	Chloroaniline-4	106-47-8	5	U	R	ug/L
GW	SVOA	MW-21S-3	Chloronaphthalene-2	91-58-7	5	U	R	ug/L

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Table 1
List of Rejected Results
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Matrix	Analysis Group	Sample ID	Chemical Name	CAS Number	Result	Lab Qualifier	Data Validation Qualifier	Units
GW	SVOA	MW-21S-3	Chlorophenol-2	95-57-8	5	U	R	ug/L
GW	SVOA	MW-21S-3	Chlorophenyl-4 phenyl ether	7005-72-3	5	U	R	ug/L
GW	SVOA	MW-21S-3	Chrysene	218-01-9	5	U	R	ug/L
GW	SVOA	MW-21S-3	Cresol-4,6-dinitro-ortho	534-52-1	10	U	R	ug/L
GW	SVOA	MW-21S-3	Cresol-parachloro-meta	59-50-7	5	U	R	ug/L
GW	SVOA	MW-21S-3	Dibenzo(a,h)anthracene	53-70-3	5	U	R	ug/L
GW	SVOA	MW-21S-3	Dibenzofuran	132-64-9	5	U	R	ug/L
GW	SVOA	MW-21S-3	Dichlorobenzidine-3,3	91-94-1	5	U	R	ug/L
GW	SVOA	MW-21S-3	Dichlorophenol-2,4	120-83-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Dinitrophenol-2,4	51-28-5	10	U	R	ug/L
GW	SVOA	MW-21S-3	Dinitrotoluene-2,4	121-14-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Dinitrotoluene-2,6	606-20-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Ether, bis(2-chloroethyl)	111-44-4	5	U	R	ug/L
GW	SVOA	MW-21S-3	Fluoranthene	206-44-0	5	U	R	ug/L
GW	SVOA	MW-21S-3	Fluorene	86-73-7	5	U	R	ug/L
GW	SVOA	MW-21S-3	Hexachlorobenzene	118-74-1	5	U	R	ug/L
GW	SVOA	MW-21S-3	Hexachlorobutadiene	87-68-3	5	U	R	ug/L
GW	SVOA	MW-21S-3	Hexachlorocyclopentadiene	77-47-4	5	U	R	ug/L
GW	SVOA	MW-21S-3	Hexachloroethane	67-72-1	5	U	R	ug/L
GW	SVOA	MW-21S-3	Indeno(1,2,3-cd)pyrene	193-39-5	5	U	R	ug/L
GW	SVOA	MW-21S-3	Isophorone	78-59-1	5	U	R	ug/L
GW	SVOA	MW-21S-3	Methane, bis(2-chloroethoxy)	111-91-1	5	U	R	ug/L
GW	SVOA	MW-21S-3	Methylnaphthalene-2	91-57-6	5	U	R	ug/L
GW	SVOA	MW-21S-3	Nitroaniline-2	88-74-4	10	U	R	ug/L
GW	SVOA	MW-21S-3	Nitroaniline-3	99-09-2	10	U	R	ug/L
GW	SVOA	MW-21S-3	Nitroaniline-4	100-01-6	10	U	R	ug/L
GW	SVOA	MW-21S-3	Nitrobenzene	98-95-3	5	U	R	ug/L
GW	SVOA	MW-21S-3	Nitrophenol-2	88-75-5	5	U	R	ug/L
GW	SVOA	MW-21S-3	Nitrophenol-4	100-02-7	10	U	R	ug/L
GW	SVOA	MW-21S-3	Nitroso-di-n-propyl-amine-N	621-64-7	5	U	R	ug/L
GW	SVOA	MW-21S-3	Nitrosodiphenylamine-n	86-30-6	5	U	R	ug/L
GW	SVOA	MW-21S-3	PCP (Pentachlorophenol)	87-86-5	10	U	R	ug/L
GW	SVOA	MW-21S-3	Phenanthrene	85-01-8	5	U	R	ug/L
GW	SVOA	MW-21S-3	Phthalate, bis(2-ethylhexyl) (DEHP)	117-81-7	5	U	R	ug/L
GW	SVOA	MW-21S-3	Phthalate, diethyl	84-66-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Phthalate, dimethyl	131-11-3	5	U	R	ug/L
GW	SVOA	MW-21S-3	Phthalate, di-n-butyl	84-74-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Phthalate, di-n-octyl	117-84-0	5	U	R	ug/L
GW	SVOA	MW-21S-3	Pyrene	129-00-0	5	U	R	ug/L
GW	SVOA	MW-21S-3	Tetrachlorobenzene-1,2,4,5	95-94-3	5	U	R	ug/L
GW	SVOA	MW-21S-3	Tetrachlorophenol-2,3,4,6	58-90-2	5	U	R	ug/L
GW	SVOA	MW-21S-3	Trichlorophenol-2,4,5	95-95-4	5	U	R	ug/L
GW	SVOA	MW-21S-3	Trichlorophenol-2,4,6	88-06-2	5	U	R	ug/L

Appendix
Table 2
Stations of Interest Based on QL and MDL Versus Standard / Criteria Values
Soil

Stations of Interest (QL Comparison)		
Stations that have at least one QL v. PAL exceedance and do not have a detected PAL exceedance at the same station and for the same		
Analysis Group	IGWSCC	NRDCSCC2008
VOA	MW-20S, *SB-53*	MW-18S, MW-19S, MW-20S, SB-39, SB-40, SB-41, SB-42, SB-43, SB-44, SB-46, SB-47, SB-48, SB-50, SB-51, *SB-52, SB-56*
SVOA	*SB-53*	none
PEST	none	none
PCB	none	none
METAL	none	none

Stations of Interest (MDL Comparison)		
Of the "Stations of Interest (QL Comparison)", these stations have at least one MDL v. PAL exceedance.		
Analysis Group	IGWSCC	NRDCSCC2008
VOA	**MW-20S**	**MW-18S, MW-19S, MW-20S, SB-39, SB-40, SB-41, SB-42, SB-43, SB-44, SB-46, SB-47, SB-48, SB-50, SB-51**
SVOA	none	Not applicable
PEST	Not applicable	Not applicable
PCB	Not applicable	Not applicable
METAL	Not applicable	Not applicable

Notes

Blue Italics Text: For all QL v. PAL exceedances at this station, the MDL is still less than the PAL.

Red Bold Text: Station could not be evaluated MDL v. PAL exceedances because MDLs were not provided electronically for that station and analysis group.

Not applicable indicates that there were no compounds with a QL greater than the PAL and therefore, there was no need to perform the MDL versus the PAL analysis.

Analysis Groups:
VOA: Volatile Organic Analytes
SVOA: Semivolatile Organic Analytes
PEST: Pesticides
PCB: PCBs (Aroclors)
METAL: Metals (includes Mercury)

Appendix
Table 3
Stations of Interest Based on QL and MDL Versus Standards/Criteria Values
Sediment

Stations of Interest (QL Comparison)		
Stations that have at least one QL v. PAL exceedance and do not have a detected PAL exceedance at the same station and for the same analysis group and PAL		
Analysis Group	NJ SSV	SQuiRTs
VOA	none	none
SVOA	none	SD-26, SD-30, SD-33, SD-34, SD-35, SD-37, and SD-38
PEST	SD-37	none
PCB	none	none
METAL	none	none

Stations of Interest (MDL Comparison)		
Of the "Stations of Interest (QL Comparison)", these stations have at least one MDL v. PAL exceedance.		
Analysis Group	NJ SSV	SQuiRTs
VOA	Not applicable	Not applicable
SVOA	Not applicable	**SD-26, SD-30, SD-33, SD-34, SD-35, SD-37, and SD-38**
PEST	**SD-37**	Not applicable
PCB	Not applicable	Not applicable
METAL	Not applicable	Not applicable

Notes

Blue Italics Text: For all QL v. PAL exceedances at this station, the MDL is still less than the PAL.

Red Bold Text: Station could not be evaluated MDL v. PAL exceedances because MDLs were not provided electronically for that station and analysis group.

Not applicable indicates that there were no compounds with a QL greater than the PAL and therefore, there was no need to perform the MDL versus the PAL analysis.

Analysis Groups:
VOA: Volatile Organic Analytes
SVOA: Semivolatile Organic Analytes
PEST: Pesticides
PCB: PCBs (Aroclors)
METAL: Metals (includes Mercury)

Appendix Table 4
Stations of IOnterest Based on QL and MDL Versus Standards / Criteria Groundwater

Stations of Interest (QL Comparison)		
Stations that have at least one QL v. PAL exceedance and do not have a detected PAL exceedance at the same station and for the same analysis group and PAL		
Analysis Group	GWQS or GWQC	MCL
VOA	MW-01, MW-05, MW-06S, MW-09S, MW-10D, MW-10S, MW-14S, MW-15D, MW-15S, MW-17S, MW-20S, MW-21S, MW-23S, MW-24S, MW-25S, and MW-26S	*MW-01S, MW-02S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11S, MW-13D, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-20S, MW-21S, MW-23S, MW-24S, MW-25S, and MW-26S*
SVOA	MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S	MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-12D, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-24S, MW-25S, and MW-26S
PEST	MW-01S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S	MW-01S, MW-3S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S,MW-25S, and MW-26S
PCB	none	MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-12S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S
METAL	none	MW-01S, MW-04S, MW-05S, MW-06S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, and MW-26S
FMETAL	MW-11S	MW-11S and MW-11D

Stations of Interest (MDL Comparison)		
Of the "Stations of Interest (QL Comparison)", these stations have at least one MDL v. PAL exceedance.		
Analysis Group	GWQS or GWQC	MCL
VOA	MW-01, MW-05, MW-06S, MW-09S, MW-10D, MW-10S, MW-14S, MW-15D, MW-15S, MW-17S, MW-20S, MW-21S, MW-23S, MW-24S, MW-25S, and MW-26S	none
SVOA	MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S	MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-12D, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-24S, MW-25S, and MW-26S
PEST	**MW-01S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S**	**MW-01S, MW-3S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S,MW-25S, and MW-26S**
PCB	Not applicable	**MW-01S, MW-02S, MW-03S, MW-04S, MW-05S, MW-06S, MW-07S, MW-09S, MW-10D, MW-10S, MW-11D, MW-11S, MW-12S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-18S, MW-19S, MW-20S, MW-23S, MW-24S, MW-25S, and MW-26S**
METAL	Not applicable	**MW-01S, MW-04S, MW-05S, MW-06S, MW-10D, MW-10S, MW-11D, MW-11S, MW-13D, MW-13S, MW-14S, MW-15D, MW-15S, MW-17S, and MW-26S**
FMETAL	**MW-11S**	**MW-11S and MW-11D**

Notes

Blue Italics Text: For all QL v. PAL exceedances at this station, the MDL is still less than the PAL.

Red Bold Text: Station could not be evaluated MDL v. PAL exceedances because MDLs were not provided for that station and analysis group.

Not applicable indicates that there were no compounds with a QL greater than the PAL and therefore, there was no need to perform the MDL versus the PAL analysis.

Analysis G[illegible]: VOA: Volatile Organic Analytes; SVOA: Semivolatile Organic Analytes; PEST: [illegible]ides; PCB: PCBs (Aroclors); METAL: Metals (includes Mercury)