Table 3-1
Number of Samples Collected for the Sauget Area 1 Support Sampling Plan

Sampled Environmental Media	Number of Samples	Number of Analytes	QA/QC Samples	Number of Analytes	Number of Trip Blanks	Number of Analytes	Total No. of Analyses
Source Area Surface Soil	20	9	8	9	9	1	**261**
Source Area Subsurface Soil	25	12	15	12	13	1	**493**
Source Area Subsurface Soil - Physical Properties	20	3	0	0	0	0	**60**
Source Area Groundwater - SHU	28	9	12	9	12	1	**372**
Source Area Groundwater - MHU and DHU	11	9	6	9	6	1	**159**
Source Area Groundwater - Bedrock	3	9	3	9	2	1	**56**
Source Area Ambient Air	13	5	0	0	1	1	**66**
Downgradient Groundwater	89	8	29	8	34	1	**978**
Downgradient Groundwater - Dioxin	27	1	14	1	0	0	**41**
Downgradient Groundwater - Physical Properties	15	1	0	0	0	0	**15**
Residential Area Groundwater - SHU	6	9	2	9	2	1	**74**
Residential Area Groundwater - Time Series	6	9	2	9	3	1	**75**
Residential Area Groundwater - Domestic Wells	4	9	3	9	1	1	**64**
Background Soil Sampling	6	9	3	9	4	1	**85**
Undeveloped Area Floodplain Surface Soil	45	11	13	8	11	1	**610**
Undeveloped Area Floodplain Surface Soil - Dioxin	9	1	7	1	0	0	**16**
Undeveloped Area Floodplain Subsurface Soil	45	8	13	8	12	1	**476**
Undeveloped Area Floodplain Subsurface Soil - Dioxin	9	1	7	1	0	0	**16**
Developed Area Floodplain Surface Soil	20	9	5	9	1	1	**226**
Developed Area Floodplain Surface Soil - Dioxin	20	1	5	1	0	0	**25**
Developed Area Floodplain Subsurface Soil	20	8	3	8	3	1	**187**
Developed Area Floodplain Subsurface Soil - Dioxin	4	1	2	1	0	0	**6**
Surface Water	20	16	8	16	5	1	**453**
Industry-Specific Sediment	97	7	17	7	0	0	**798**
Broad-Scan Sediment	23	12	7	12	10	1	**370**
Dead Creek Sediment	2	12	3	12	1	1	**61**
Borrow Pit Lake Sediment	8	7	1	7	0	0	**63**
Benthic Community	69	1	0	0	0	0	**69**
Plant Tissue	15	7	0	0	0	0	**105**
Macroinvertebrate Tissue	10	7	0	0	0	0	**70**
Shrimp Tissue	6	7	0	0	0	0	**42**
Forage Fish Tissue	9	7	0	0	0	0	**63**
Whole Gamefish	7	7	1	1	0	0	**50**
Gamefish Fillets	7	7	1	1	0	0	**50**
Bottom-Feeding Fish Tissue	7	7	0	0	0	0	**49**
Sediment Bioassays	23	1	8	1	0	0	**31**
TOTAL	**748**	**247**	**198**	**187**	**130**	**18**	**6635**

Table 3-2
Site G Surface Soil Analytical Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Pesticides					
4,4'-DDT	3 : 4	75	8.45E-05	1.15E-04	1.60E-04
Alpha Chlordane	2 : 4	50	1.20E-04	1.90E-04	2.60E-04
delta-BHC	3 : 4	75	5.80E-05	6.53E-05	7.00E-05
Dieldrin	1 : 4	25	6.20E-05	6.20E-05	6.20E-05
Endosulfan I	1 : 4	25	2.20E-04	2.20E-04	2.20E-04
Endosulfan II	1 : 4	25	3.40E-04	3.40E-04	3.40E-04
Endosulfan sulfate	2 : 4	50	1.20E-04	1.50E-04	1.80E-04
Endrin	2 : 4	50	1.40E-04	1.48E-04	1.55E-04
Endrin aldehyde	2 : 4	50	1.20E-04	3.95E-04	6.70E-04
Endrin ketone	2 : 4	50	1.10E-04	4.50E-04	7.90E-04
Gamma Chlordane	3 : 4	75	7.70E-05	2.02E-04	3.10E-04
Heptachlor epoxide	1 : 4	25	2.20E-04	2.20E-04	2.20E-04
Methoxychlor	1 : 4	25	9.40E-04	9.40E-04	9.40E-04
PCBs					
Total PCBs	2 : 4	50	1.57E-02	4.93E-02	8.30E-02
Dioxin					
Dioxin TEQ-HH	4 : 4	100	2.00E-06	5.02E-06	1.15E-05
Metals					
Aluminum	4 : 4	100	9.30E+03	1.30E+04	1.50E+04
Antimony	2 : 4	50	6.50E-01	6.85E-01	7.20E-01
Arsenic	4 : 4	100	6.50E+00	7.19E+00	8.05E+00
Barium	4 : 4	100	7.90E+01	1.17E+02	1.40E+02
Beryllium	4 : 4	100	5.10E-01	5.89E-01	6.40E-01
Cadmium	4 : 4	100	1.80E-01	2.60E-01	3.90E-01
Calcium	4 : 4	100	5.10E+03	9.73E+03	1.40E+04
Chromium	4 : 4	100	1.50E+01	1.93E+01	2.20E+01
Cobalt	4 : 4	100	5.80E+00	7.32E+00	8.60E+00
Copper	4 : 4	100	1.00E+02	1.83E+02	2.90E+02
Iron	4 : 4	100	1.60E+04	1.84E+04	2.00E+04
Lead	4 : 4	100	1.10E+01	1.36E+01	1.60E+01
Magnesium	4 : 4	100	3.30E+03	4.09E+03	4.95E+03
Manganese	4 : 4	100	2.60E+02	5.44E+02	7.40E+02
Mercury	4 : 4	100	1.50E-02	2.45E-02	2.90E-02
Molybdenum	4 : 4	100	3.80E-01	5.19E-01	7.80E-01
Nickel	4 : 4	100	1.70E+01	1.89E+01	2.15E+01
Potassium	4 : 4	100	1.20E+03	1.45E+03	1.70E+03
Vanadium	4 : 4	100	3.20E+01	3.58E+01	4.00E+01
Zinc	4 : 4	100	5.60E+01	6.09E+01	6.95E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.

Table 3-2
Site G Surface Soil Analytical Data Summary

VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-3
Site H Surface Soil Analytical Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Hexanone	1 : 4	25	5.70E-03	5.70E-03	5.70E-03
Carbon disulfide	1 : 4	25	4.30E-03	4.30E-03	4.30E-03
Tetrachloroethene	1 : 4	25	1.70E-02	1.70E-02	1.70E-02
SVOCs					
Benzo(a)anthracene	3 : 4	75	9.50E-02	1.08E-01	1.30E-01
Benzo(a)pyrene	3 : 4	75	1.00E-01	1.17E-01	1.40E-01
Benzo(b)fluoranthene	3 : 4	75	1.00E-01	1.20E-01	1.40E-01
Benzo(g,h,i)perylene	1 : 4	25	3.70E-01	3.70E-01	3.70E-01
Benzo(k)fluoranthene	3 : 4	75	8.20E-02	9.90E-02	1.30E-01
bis(2-Ethylhexyl)phthalate	2 : 4	50	1.10E-01	1.15E-01	1.20E-01
Chrysene	3 : 4	75	1.10E-01	1.80E-01	3.00E-01
Fluoranthene	3 : 4	75	1.40E-01	1.97E-01	2.40E-01
Indeno(1,2,3-cd)pyrene	2 : 4	50	8.70E-02	9.35E-02	1.00E-01
Phenanthrene	1 : 4	25	1.10E-01	1.10E-01	1.10E-01
Pyrene	3 : 4	75	1.60E-01	1.80E-01	1.90E-01
Pesticides					
4,4'-DDE	3 : 4	75	6.90E-03	4.53E-02	8.60E-02
4,4'-DDT	3 : 4	75	8.70E-03	5.96E-02	1.10E-01
Aldrin	2 : 4	50	1.00E-02	1.55E-02	2.10E-02
Endosulfan II	1 : 4	25	7.20E-03	7.20E-03	7.20E-03
Endrin ketone	3 : 4	75	1.40E-03	3.28E-02	8.20E-02
Gamma Chlordane	2 : 4	50	2.70E-02	2.85E-02	3.00E-02
Heptachlor	1 : 4	25	2.00E-03	2.00E-03	2.00E-03
Heptachlor epoxide	3 : 4	75	5.90E-04	2.15E-02	4.40E-02
Methoxychlor	2 : 4	50	3.30E-02	8.15E-02	1.30E-01
Herbicides					
2,4-DB	2 : 4	50	8.40E-03	9.05E-03	9.70E-03
Pentachlorophenol	1 : 4	25	4.10E-02	4.10E-02	4.10E-02
PCBs					
Total PCBs	3 : 4	75	7.54E-02	9.54E-01	1.52E+00
Dioxin					
Dioxin TEQ-HH	4 : 4	100	6.03E-05	5.30E-04	1.28E-03
Metals					
Aluminum	4 : 4	100	4.30E+03	7.95E+03	1.40E+04
Antimony	4 : 4	100	6.90E-01	1.57E+00	2.30E+00
Arsenic	4 : 4	100	6.50E+00	2.28E+01	6.40E+01
Barium	4 : 4	100	9.90E+01	1.12E+02	1.20E+02
Beryllium	4 : 4	100	7.30E-01	1.52E+00	3.80E+00
Cadmium	4 : 4	100	2.70E+00	9.02E+00	2.20E+01
Calcium	4 : 4	100	5.90E+03	1.76E+04	4.20E+04
Chromium	4 : 4	100	1.50E+01	1.95E+01	2.30E+01
Cobalt	4 : 4	100	5.20E+00	1.00E+01	2.00E+01
Copper	4 : 4	100	2.00E+02	3.75E+02	4.80E+02
Iron	4 : 4	100	1.40E+04	1.63E+04	1.80E+04
Lead	4 : 4	100	5.30E+01	1.46E+02	2.30E+02
Magnesium	4 : 4	100	6.90E+02	2.02E+03	2.50E+03

Table 3-3
Site H Surface Soil Analytical Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Manganese	4 : 4	100	9.80E+01	4.37E+02	7.20E+02
Mercury	4 : 4	100	6.40E-02	2.83E-01	7.70E-01
Molybdenum	4 : 4	100	9.80E-01	4.95E+00	1.10E+01
Nickel	4 : 4	100	2.00E+01	3.40E+01	7.00E+01
Potassium	4 : 4	100	8.30E+02	1.16E+03	1.60E+03
Selenium	3 : 4	75	4.20E-01	1.92E+00	4.70E+00
Silver	3 : 4	75	5.10E-01	1.67E+00	2.70E+00
Sodium	4 : 4	100	1.10E+02	2.48E+02	3.90E+02
Thallium	1 : 4	25	2.50E+00	2.50E+00	2.50E+00
Vanadium	4 : 4	100	2.00E+01	3.00E+01	4.50E+01
Zinc	4 : 4	100	3.50E+02	1.28E+03	3.60E+03

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-4a
Site I South Source Area Surface Soil Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
SVOCs						
1,2,4-Trichlorobenzene	120-82-1	1 : 2	50	1.80E-01	1.80E-01	1.80E-01
1,4-Dichlorobenzene	106-46-7	1 : 2	50	4.60E-02	4.60E-02	4.60E-02
2,4-Dichlorophenol	120-83-2	1 : 2	50	8.20E-02	8.20E-02	8.20E-02
2-Nitroaniline	88-74-4	1 : 2	50	1.60E-01	1.60E-01	1.60E-01
4-Chloroaniline	106-47-8	1 : 2	50	1.80E+01	1.80E+01	1.80E+01
Benzo(a)anthracene	56-55-3	1 : 2	50	7.80E-02	7.80E-02	7.80E-02
Benzo(a)pyrene	50-32-8	1 : 2	50	7.00E-02	7.00E-02	7.00E-02
Benzo(b)fluoranthene	205-99-2	1 : 2	50	1.00E-01	1.00E-01	1.00E-01
Benzo(g,h,i)perylene	191-24-2	1 : 2	50	1.10E-01	1.10E-01	1.10E-01
Benzo(k)fluoranthene	207-08-9	1 : 2	50	5.50E-02	5.50E-02	5.50E-02
Chrysene	218-01-9	1 : 2	50	9.90E-02	9.90E-02	9.90E-02
Fluoranthene	206-44-0	2 : 2	100	1.20E-01	1.45E-01	1.70E-01
Hexachlorobenzene	118-74-1	1 : 2	50	1.10E-01	1.10E-01	1.10E-01
Pentachlorophenol	87-86-5	1 2	50	2.00E+00	2.00E+00	2.00E+00
Phenanthrene	85-01-8	2 2	100	5.00E-02	6.05E-02	7.10E-02
Pyrene	129-00-0	2 2	100	1.40E-01	1.55E-01	1.70E-01
Pesticides						
4,4'-DDD	72-54-8	1 : 2	50	2.00E-01	2.00E-01	2.00E-01
4,4'-DDE	72-55-9	1 : 2	50	3.00E-01	3.00E-01	3.00E-01
4,4'-DDT	50-29-3	1 : 2	50	4.60E-01	4.60E-01	4.60E-01
Aldrin	309-00-2	1 : 2	50	2.50E-01	2.50E-01	2.50E-01
Dieldrin	60-57-1	1 : 2	50	2.00E-01	2.00E-01	2.00E-01
Endosulfan I	959-98-8	1 : 2	50	2.60E-01	2.60E-01	2.60E-01
Endosulfan II	33213-65-9	1 : 2	50	6.00E-01	6.00E-01	6.00E-01
Endrin	72-20-8	1 : 2	50	2.40E-01	2.40E-01	2.40E-01
Endrin aldehyde	7421-93-4	1 : 2	50	1.50E+00	1.50E+00	1.50E+00
Endrin ketone	53494-70-5	1 : 2	50	7.00E-01	7.00E-01	7.00E-01
Gamma Chlordane	5103-74-2	1 : 2	50	3.80E-01	3.80E-01	3.80E-01
Heptachlor	76-44-8	1 : 2	50	6.90E-02	6.90E-02	6.90E-02
Heptachlor epoxide	1024-57-3	1 : 2	50	1.40E-01	1.40E-01	1.40E-01
Methoxychlor	72-43-5	1 : 2	50	3.00E+00	3.00E+00	3.00E+00
Herbicides						
Pentachlorophenol	87-86-5	2 : 2	100	6.20E-04	6.50E-01	1.30E+00
PCBs						
Total PCBs	1366-36-3	1 : 2	50	1.21E+02	1.21E+02	1.21E+02
Dioxin						
Dioxin TEQ-HH	1746-01-6	2 : 2	100	1.13E-04	6.93E-03	1.37E-02
Metals						
Aluminum	7429-90-5	2 : 2	100	5.20E+03	5.40E+03	5.60E+03
Antimony	7440-36-0	2 : 2	100	2.90E+00	5.65E+00	8.40E+00
Arsenic	7440-38-2	2 : 2	100	4.90E+00	7.30E+00	9.70E+00
Barium	7440-39-3	2 : 2	100	1.10E+02	4.25E+02	7.40E+02
Beryllium	7440-41-7	2 : 2	100	7.10E-01	7.40E-01	7.70E-01
Cadmium	7440-43-9	2 : 2	100	2.20E+00	1.66E+01	3.10E+01
Calcium	7440-70-2	2 : 2	100	9.20E+04	1.41E+05	1.90E+05
Chromium	7440-47-3	2 : 2	100	1.80E+01	2.75E+01	3.70E+01
Cobalt	7440-48-4	2 : 2	100	4.80E+00	1.89E+01	3.30E+01
Copper	7440-50-8	2 : 2	100	2.00E+03	6.00E+03	1.00E+04
Metals (cont.)						
Iron	7439-89-6	2 : 2	100	1.00E+04	1.10E+04	1.20E+04
Lead	7439-92-1	2 : 2	100	2.20E+02	8.60E+02	1.50E+03
Magnesium	7439-95-4	2 : 2	100	7.60E+03	9.30E+03	1.10E+04
Manganese	7439-96-5	2 : 2	100	1.60E+02	1.75E+02	1.90E+02
Mercury	7439-97-6	2 : 2	100	5.70E-02	1.03E+00	2.00E+00
Molybdenum	7439-98-7	2 : 2	100	2.70E+00	5.10E+00	7.50E+00
Nickel	7440-02-0	2 : 2	100	2.00E+01	3.10E+01	4.20E+01
Potassium	7440-09-7	2 : 2	100	1.10E+03	1.20E+03	1.30E+03

Table 3-4a
Site I South Source Area Surface Soil Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Selenium	7782-49-2	1 : 2	50	1.60E+00	1.60E+00	1.60E+00
Silver	7440-22-4	2 : 2	100	3.10E+00	7.05E+00	1.10E+01
Sodium	7440-23-5	2 : 2	100	7.60E+02	8.15E+02	8.70E+02
Vanadium	7440-62-2	2 : 2	100	1.70E+01	1.90E+01	2.10E+01
Zinc	7440-66-6	2 : 2	100	1.20E+03	2.00E+03	2.80E+03

Notes:
2,4-DB - 4-(2,4-Dichlorophenoxy) butyric acid.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-4b
Site I North Source Area Surface Soil Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs						
Toluene	108-88-3	1 : 2	50	3.80E-03	3.80E-03	3.80E-03
SVOCs						
4-Chloroaniline	106-47-8	1 : 2	50	2.40E-01	2.40E-01	2.40E-01
Anthracene	120-12-7	2 : 2	100	2.85E-02	3.79E-01	7.30E-01
Benzo(a)anthracene	56-55-3	2 : 2	100	2.40E-01	1.22E+00	2.20E+00
Benzo(a)pyrene	50-32-8	2 : 2	100	1.95E-01	1.20E+00	2.20E+00
Benzo(b)fluoranthene	205-99-2	2 : 2	100	2.60E-01	1.53E+00	2.80E+00
Benzo(g,h,i)perylene	191-24-2	2 : 2	100	1.45E-01	8.73E-01	1.60E+00
Benzo(k)fluoranthene	207-08-9	2 : 2	100	1.31E-01	5.46E-01	9.60E-01
bis(2-Ethylhexyl)phthalate	117-81-7	1 : 2	50	9.00E-02	9.00E-02	9.00E-02
Carbazole	86-74-8	1 : 2	50	3.20E-01	3.20E-01	3.20E-01
Chrysene	218-01-9	2 : 2	100	2.55E-01	1.23E+00	2.20E+00
Dibenzo(a,h)anthracene	53-70-3	2 : 2	100	2.90E-02	1.95E-01	3.60E-01
Dibenzofuran	132-64-9	1 : 2	50	1.00E-01	1.00E-01	1.00E-01
Di-n-butylphthalate	84-74-2	1 : 2	50	5.20E-02	5.20E-02	5.20E-02
Fluoranthene	206-44-0	2 2	100	3.65E-01	3.18E+00	6.00E+00
Fluorene	86-73-7	1 2	50	2.30E-01	2.30E-01	2.30E-01
Indeno(1,2,3-cd)pyrene	193-39-5	2 2	100	1.50E-01	8.75E-01	1.60E+00
Phenanthrene	85-01-8	2 2	100	1.10E-01	1.71E+00	3.30E+00
Pyrene	129-00-0	2 2	100	3.85E-01	2.54E+00	4.70E+00
Pesticides						
4,4'-DDD	72-54-8	2 : 2	100	3.10E-04	3.68E-04	4.25E-04
4,4'-DDE	72-55-9	2 : 2	100	1.55E-03	4.48E-03	7.40E-03
4,4'-DDT	50-29-3	1 : 2	50	2.50E-03	2.50E-03	2.50E-03
Aldrin	309-00-2	2 : 2	100	8.20E-04	2.16E-03	3.50E-03
Alpha Chlordane	5103-71-9	1 : 2	50	2.65E-03	2.65E-03	2.65E-03
Dieldrin	60-57-1	2 : 2	100	1.70E-03	5.65E-03	9.60E-03
Endosulfan I	959-98-8	2 : 2	100	7.20E-04	3.21E-03	5.70E-03
Endosulfan II	33213-65-9	2 : 2	100	2.25E-03	8.63E-03	1.50E-02
Endosulfan sulfate	1031-07-8	1 : 2	50	8.80E-03	8.80E-03	8.80E-03
Endrin	72-20-8	2 : 2	100	9.10E-04	3.36E-03	5.80E-03
Endrin aldehyde	7421-93-4	2 : 2	100	4.70E-03	2.24E-02	4.00E-02
Endrin ketone	53494-70-5	2 : 2	100	3.20E-03	1.26E-02	2.20E-02
Gamma Chlordane	5103-74-2	2 : 2	100	5.55E-03	7.28E-03	9.00E-03
Heptachlor	76-44-8	1 : 2	50	8.55E-04	8.55E-04	8.55E-04
Heptachlor epoxide	1024-57-3	2 : 2	100	9.40E-04	2.82E-03	4.70E-03
Methoxychlor	72-43-5	2 2	100	1.60E-02	4.15E-02	6.70E-02
Herbicides						
2,4-DB	94-82-6	1 : 2	50	5.40E-02	5.40E-02	5.40E-02
Pentachlorophenol	87-86-5	2 : 2	100	1.10E-03	5.40E-03	9.70E-03
PCBs						
Total PCBs	1366-36-3	2 : 2	100	4.10E-01	1.91E+00	3.42E+00
Dioxin						
Dioxin TEQ-HH	1746-01-6	2 : 2	100	7.03E-05	2.71E-04	4.72E-04
Metals						
Aluminum	7429-90-5	2 : 2	100	3.75E+03	5.88E+03	8.00E+03
Antimony	7440-36-0	2 : 2	100	4.55E+00	6.48E+00	8.40E+00
Arsenic	7440-38-2	2 : 2	100	4.55E+00	8.28E+00	1.20E+01
Barium	7440-39-3	2 : 2	100	8.30E+01	1.37E+02	1.90E+02
Beryllium	7440-41-7	2 : 2	100	4.60E-01	1.08E+00	1.70E+00
Cadmium	7440-43-9	2 : 2	100	2.40E+00	5.80E+00	9.20E+00
Calcium	7440-70-2	2 : 2	100	1.10E+05	1.73E+05	2.35E+05
Chromium	7440-47-3	2 : 2	100	1.30E+01	3.90E+01	6.50E+01
Cobalt	7440-48-4	2 : 2	100	2.00E+00	5.20E+00	8.40E+00
Copper	7440-50-8	2 : 2	100	1.65E+03	7.33E+03	1.30E+04
Metals (cont.)						
Iron	7439-89-6	2 : 2	100	5.35E+03	1.07E+04	1.60E+04

Table 3-4b
Site I North Source Area Surface Soil Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Lead	7439-92-1	2 : 2	100	2.30E+02	5.30E+02	8.30E+02
Magnesium	7439-95-4	2 : 2	100	1.20E+04	1.55E+04	1.90E+04
Manganese	7439-96-5	2 : 2	100	1.60E+02	2.30E+02	3.00E+02
Mercury	7439-97-6	2 : 2	100	4.75E-02	1.79E-01	3.10E-01
Molybdenum	7439-98-7	2 : 2	100	4.75E+00	6.63E+00	8.50E+00
Nickel	7440-02-0	2 : 2	100	1.45E+01	3.98E+01	6.50E+01
Potassium	7440-09-7	2 : 2	100	1.05E+03	1.28E+03	1.50E+03
Selenium	7782-49-2	2 : 2	100	6.35E-01	1.12E+00	1.60E+00
Silver	7440-22-4	2 : 2	100	1.75E+00	1.04E+01	1.90E+01
Sodium	7440-23-5	2 : 2	100	4.40E+02	4.55E+02	4.70E+02
Vanadium	7440-62-2	2 : 2	100	1.07E+01	1.84E+01	2.60E+01
Zinc	7440-66-6	2 : 2	100	4.05E+02	8.53E+02	1.30E+03

Notes:
2,4-DB - 4-(2,4-Dichlorophenoxy) butyric acid.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-5
Site L Surface Soil Analytical Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Toluene	1 : 4	25	1.30E-02	1.30E-02	1.30E-02
SVOCs					
2-Methylnaphthalene	1 : 4	25	1.40E-01	1.40E-01	1.40E-01
Acenaphthene	2 : 4	50	1.40E-01	8.70E-01	1.60E+00
Anthracene	3 : 4	75	1.60E-01	1.37E+00	3.60E+00
Benzo(a)anthracene	3 : 4	75	6.40E-01	3.38E+00	7.80E+00
Benzo(a)pyrene	3 : 4	75	5.50E-01	3.05E+00	7.00E+00
Benzo(b)fluoranthene	3 : 4	75	5.80E-01	2.89E+00	6.60E+00
Benzo(g,h,i)perylene	3 : 4	75	3.40E-01	1.75E+00	3.80E+00
Benzo(k)fluoranthene	3 : 4	75	4.60E-01	3.02E+00	6.80E+00
bis(2-Ethylhexyl)phthalate	2 : 4	50	1.80E-01	2.45E-01	3.10E-01
Carbazole	3 : 4	75	1.40E-01	6.10E-01	1.50E+00
Chrysene	3 : 4	75	7.60E-01	3.49E+00	7.80E+00
Dibenzo(a,h)anthracene	2 : 4	50	4.20E-01	8.60E-01	1.30E+00
Dibenzofuran	1 : 4	25	7.50E-01	7.50E-01	7.50E-01
Fluoranthene	3 : 4	75	1.60E+00	7.67E+00	1.80E+01
Fluorene	2 : 4	50	1.00E-01	7.50E-01	1.40E+00
Indeno(1,2,3-cd)pyrene	3 : 4	75	3.20E-01	2.07E+00	4.80E+00
Naphthalene	1 : 4	25	3.20E-01	3.20E-01	3.20E-01
Phenanthrene	3 : 4	75	1.00E+00	4.80E+00	1.20E+01
Pyrene	3 : 4	75	1.30E+00	5.67E+00	1.30E+01
Pesticides					
4,4'-DDE	3 : 4	75	1.00E-02	1.40E-02	2.00E-02
4,4'-DDT	1 : 4	25	1.60E-02	1.60E-02	1.60E-02
Aldrin	1 : 4	25	5.50E-03	5.50E-03	5.50E-03
beta-BHC	1 : 4	25	3.70E-03	3.70E-03	3.70E-03
Dieldrin	1 : 4	25	1.20E-02	1.20E-02	1.20E-02
Endrin ketone	3 : 4	75	9.50E-03	1.58E-02	2.80E-02
Gamma Chlordane	3 : 4	75	1.00E-02	1.50E-02	2.10E-02
Heptachlor epoxide	3 : 4	75	4.40E-03	7.50E-03	9.20E-03
Methoxychlor	2 : 4	50	2.40E-02	3.50E-02	4.60E-02
Herbicides					
Pentachlorophenol	1 : 4	25	4.00E-02	4.00E-02	4.00E-02
PCBs					
Total PCBs	2 : 4	50	4.58E-01	8.15E-01	1.17E+00
Dioxin					
Dioxin TEQ-HH	4 : 4	100	1.03E-04	3.47E-04	7.54E-04
Metals					
Aluminum	4 : 4	100	3.50E+03	5.75E+03	7.60E+03
Antimony	4 : 4	100	2.00E+00	3.28E+00	5.40E+00
Arsenic	4 : 4	100	3.00E+01	3.33E+01	3.70E+01
Barium	4 : 4	100	6.30E+01	1.71E+02	2.50E+02
Beryllium	4 : 4	100	1.40E+00	1.48E+00	1.60E+00
Cadmium	4 : 4	100	7.10E-01	5.60E+00	1.00E+01
Calcium	4 : 4	100	2.80E+03	2.00E+04	2.90E+04
Chromium	4 : 4	100	1.70E+01	4.53E+01	7.90E+01

Table 3-5
Site L Surface Soil Analytical Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Cobalt	4 : 4	100	1.10E+01	1.38E+01	1.70E+01
Copper	4 : 4	100	1.90E+02	1.76E+03	4.70E+03
Cyanide, Total	1 : 4	25	1.60E+00	1.60E+00	1.60E+00
Iron	4 : 4	100	7.10E+03	2.30E+04	3.20E+04
Lead	4 : 4	100	6.40E+01	3.69E+02	9.40E+02
Magnesium	4 : 4	100	3.40E+02	2.49E+03	4.20E+03
Manganese	4 : 4	100	2.30E+01	3.51E+02	6.50E+02
Mercury	4 : 4	100	3.90E-02	3.22E-01	5.60E-01
Molybdenum	4 : 4	100	9.30E+00	1.45E+01	2.30E+01
Nickel	4 : 4	100	3.80E+01	4.68E+01	5.50E+01
Potassium	4 : 4	100	5.00E+02	1.09E+03	1.70E+03
Selenium	4 : 4	100	1.80E+00	3.08E+00	4.30E+00
Silver	3 : 4	75	7.00E-01	9.00E-01	1.20E+00
Sodium	4 : 4	100	2.10E+02	3.45E+02	5.40E+02
Thallium	4 : 4	100	1.60E+00	1.85E+00	2.10E+00
Vanadium	4 : 4	100	3.90E+01	4.43E+01	4.90E+01
Zinc	4 : 4	100	1.60E+02	5.10E+02	8.70E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-6
Site N Surface Soil Analytical Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
SVOCs					
Anthracene	3 : 4	75	3.60E-02	4.70E-02	5.80E-02
Benzo(a)anthracene	4 : 4	100	7.00E-02	1.68E-01	2.70E-01
Benzo(a)pyrene	4 : 4	100	7.20E-02	1.87E-01	3.30E-01
Benzo(b)fluoranthene	4 : 4	100	5.90E-02	1.65E-01	3.20E-01
Benzo(g,h,i)perylene	1 : 4	25	3.00E-01	3.00E-01	3.00E-01
Benzo(k)fluoranthene	4 : 4	100	8.00E-02	2.17E-01	3.60E-01
bis(2-Ethylhexyl)phthalate	1 : 4	25	1.30E-01	1.30E-01	1.30E-01
Chrysene	4 : 4	100	8.80E-02	2.00E-01	3.10E-01
Dibenzo(a,h)anthracene	2 : 4	50	8.10E-02	9.55E-02	1.10E-01
Fluoranthene	4 : 4	100	1.70E-01	3.92E-01	6.10E-01
Indeno(1,2,3-cd)pyrene	3 : 4	75	8.00E-02	1.60E-01	2.50E-01
Phenanthrene	4 : 4	100	8.00E-02	1.76E-01	2.60E-01
Pyrene	4 : 4	100	1.50E-01	3.41E-01	5.50E-01
Pesticides					
4,4'-DDT	1 : 4	25	2.70E-03	2.70E-03	2.70E-03
Aldrin	1 : 4	25	1.60E-03	1.60E-03	1.60E-03
Alpha Chlordane	1 : 4	25	1.10E-03	1.10E-03	1.10E-03
beta-BHC	1 : 4	25	4.00E-04	4.00E-04	4.00E-04
Dieldrin	1 : 4	25	2.40E-03	2.40E-03	2.40E-03
Gamma Chlordane	1 : 4	25	1.85E-03	1.85E-03	1.85E-03
Methoxychlor	1 : 4	25	5.50E-02	5.50E-02	5.50E-02
Herbicides					
Pentachlorophenol	4 : 4	100	2.60E-03	3.52E-02	1.30E-01
PCBs					
Total PCBs	1 : 4	25	1.78E-01	1.78E-01	1.78E-01
Dioxin					
Dioxin TEQ-HH	4 : 4	100	7.91E-06	1.17E-04	3.96E-04
Metals					
Aluminum	4 : 4	100	7.50E+03	8.75E+03	1.10E+04
Antimony	1 : 4	25	7.10E-01	7.10E-01	7.10E-01
Arsenic	4 : 4	100	5.50E+00	6.33E+00	7.30E+00
Barium	4 : 4	100	1.40E+02	5.93E+02	1.20E+03
Cadmium	4 : 4	100	3.00E-01	8.46E-01	1.50E+00
Calcium	4 : 4	100	1.60E+04	5.73E+04	1.09E+05
Chromium	4 : 4	100	1.20E+01	1.65E+01	1.80E+01
Cobalt	4 : 4	100	5.60E+00	5.84E+00	6.15E+00
Copper	4 : 4	100	1.60E+01	5.01E+01	1.10E+02
Iron	4 : 4	100	1.30E+04	1.43E+04	1.50E+04
Lead	4 : 4	100	1.90E+01	1.38E+02	4.10E+02
Magnesium	4 : 4	100	5.20E+03	7.18E+03	1.15E+04
Manganese	4 : 4	100	2.80E+02	3.74E+02	4.10E+02
Mercury	4 : 4	100	3.10E-02	6.78E-02	9.50E-02
Molybdenum	4 : 4	100	7.00E-01	1.03E+00	1.45E+00
Nickel	4 : 4	100	1.50E+01	1.61E+01	1.70E+01
Potassium	4 : 4	100	1.20E+03	1.40E+03	1.60E+03
Selenium	1 : 4	25	6.80E-01	6.80E-01	6.80E-01

Table 3-6
Site N Surface Soil Analytical Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Vanadium	4 : 4	100	2.10E+01	2.38E+01	2.90E+01
Zinc	4 : 4	100	6.20E+01	1.49E+02	2.50E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-7
Site G Subsurface Soil and Waste Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
PCBs					
Total PCBs	4 : 4	100	1.88E+01	1.14E+02	3.25E+02
Metals					
Cyanide, Total	2 : 4	50	2.40E+00	2.60E+00	2.80E+00

Notes:
PCB - Polychlorinated Biphenyl.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-8
Site H Subsurface Soil and Waste Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
PCBs					
Total PCBs	5 : 5	100	1.23E-01	2.99E+02	1.19E+03

Notes:
PCB - Polychlorinated Biphenyl.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-9a
Site I South Source Area Subsurface Soil and Waste Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
PCBs						
Total PCBs	1366-36-3	3 : 3	100	1.14E+01	6.97E+02	2.06E+03
Metals						
Cyanide, Total	57-12-5	2 : 3	67	6.50E-01	8.75E-01	1.10E+00

Notes:
CAS - Chemical Abstract Service.
PCB - Polychlorinated Biphenyl.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-9b
Site I North Source Area Subsurface Soil and Waste Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
PCBs						
Total PCBs	1366-36-3	1 : 1	100	4.61E+00	4.61E+00	4.61E+00

Notes:
CAS - Chemical Abstract Service.
PCB - Polychlorinated Biphenyl.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-10
Site L Subsurface Soil and Waste Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	1 : 1	100	1.10E-02	1.10E-02	1.10E-02
4-Methyl-2-pentanone (MIBK)	1 : 1	100	2.20E-02	2.20E-02	2.20E-02
Acetone	1 : 1	100	9.10E-02	9.10E-02	9.10E-02
Benzene	1 : 1	100	2.60E-02	2.60E-02	2.60E-02
Carbon disulfide	1 : 1	100	3.30E-02	3.30E-02	3.30E-02
Chlorobenzene	1 : 1	100	2.40E-02	2.40E-02	2.40E-02
Ethylbenzene	1 : 1	100	2.30E-03	2.30E-03	2.30E-03
Toluene	1 : 1	100	4.30E-02	4.30E-02	4.30E-02
Xylenes, Total	1 : 1	100	5.50E-03	5.50E-03	5.50E-03
PCBs					
Total PCBs	3 : 4	75	3.99E+00	4.97E+01	9.26E+01

Notes:
PCB - Polychlorinated Biphenyl.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-11
Site N Subsurface Soil and Waste Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Benzene	1 : 4	25	1.30E-02	1.30E-02	1.30E-02
Trichloroethene	1 : 4	25	2.40E-03	2.40E-03	2.40E-03
Dioxin					
Dioxin TEQ	4 : 4	100	1.02E-06	1.25E-06	1.53E-06
Metals					
Barium	4 : 4	100	6.80E-01	1.04E+00	1.80E+00
Lead	3 : 4	75	1.90E-02	3.22E-02	4.60E-02

Notes:
PCB - Polychlorinated Biphenyl.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-12
Site G Historical Subsurface Soil and Waste Data Summary

Constituent	Number of Detects (a)	Minimum (mg/kg)	Mean (mg/kg)	Maximum (mg/kg)
VOCs				
1,1,2,2-Tetrachloroethane	1	5.81E-01	5.81E-01	5.81E-01
1,2-Dichloroethane	1	4.35E-01	4.35E-01	4.35E-01
1,2-Dichloroethene (trans)	1	7.00E-01	7.00E-01	7.00E-01
2-Butanone	11	2.20E-02	7.39E+00	1.78E+01
4-Methyl-2-pentanone	4	6.35E-01	2.99E+00	6.00E+00
Acetone	11	3.20E-02	5.66E+00	1.54E+01
Benzene	6	3.00E-03	1.53E+01	4.53E+01
Chlorobenzene	8	1.07E-01	1.08E+02	5.38E+02
Chloroform	1	1.16E+01	1.16E+01	1.16E+01
Dichloromethane	11	3.00E-03	1.63E+00	7.11E+00
Ethylbenzene	6	1.64E-01	6.80E+00	1.69E+01
Tetrachloroethene	8	9.00E-03	1.88E+01	5.86E+01
Toluene	6	4.06E-01	4.85E+01	1.18E+02
Trichloroethylene	4	7.62E-01	1.94E+00	3.85E+00
Xylenes, Total	6	9.20E-02	1.64E+01	4.15E+01
SVOCs				
1,2,4-Trichlorobenzene	4	7.87E+00	6.16E+01	1.20E+02
1,4-Dichlorobenzene	2	2.38E+00	2.97E+00	3.56E+00
2,4,6-Trichlorophenol	1	4.95E+01	4.95E+01	4.95E+01
2,4-Dichlorophenol	3	1.41E+01	6.45E+01	1.41E+02
2,4-Dinitrophenol	1	1.40E+01	1.40E+01	1.40E+01
2-Chlorophenol	1	8.76E+00	8.76E+00	8.76E+00
2-Methylnaphthalene	4	8.71E+00	1.84E+01	3.71E+01
2-Methylphenol	1	3.56E+00	3.56E+00	3.56E+00
4-Chloroaniline	3	5.97E+00	8.16E+01	2.31E+02
Acenaphthene	1	2.67E+00	2.67E+00	2.67E+00
Anthracene	1	8.49E+00	8.49E+00	8.49E+00
Benzyl alcohol	1	6.10E+00	6.10E+00	6.10E+00
Benzyl Butyl Phthalate	1	2.33E+01	2.33E+01	2.33E+01
Chrysene	1	2.29E+01	2.29E+01	2.29E+01
Dibenzofuran	2	4.30E+00	1.91E+01	3.38E+01
Diethyl Phthalate	1	2.29E+01	2.29E+01	2.29E+01
Di-n-butylphthalate	4	2.79E-01	8.92E+00	1.76E+01
Fluoranthene	1	6.59E+00	6.59E+00	6.59E+00
Fluorene	1	1.13E+01	1.13E+01	1.13E+01
Hexachlorobenzene	2	2.79E+01	3.43E+01	4.06E+01
Naphthalene	7	4.83E+00	8.93E+02	5.43E+03
N-Nitrosodiphenylamine	1	1.78E+02	1.78E+02	1.78E+02
Phenanthrene	4	1.29E+01	2.84E+01	5.14E+01
Phenol	1	1.78E+02	1.78E+02	1.78E+02
Pyrene	2	7.56E+00	1.33E+01	1.91E+01
Pesticides				
4,4'-DDE	4	3.07E+00	4.88E+01	1.35E+02
Herbicides				
Pentachlorophenol	5	2.35E+01	1.32E+03	4.77E+03

Table 3-12
Site G Historical Subsurface Soil and Waste Data Summary

Constituent	Number of Detects (a)	Minimum (mg/kg)	Mean (mg/kg)	Maximum (mg/kg)
PCBs				
Total PCBs	7	1.30E-01	9.08E+02	4.43E+03
Metals				
Aluminum	13	9.66E+02	8.17E+03	1.87E+04
Arsenic	5	2.50E+00	5.52E+00	1.11E+01
Barium	13	1.17E+02	5.00E+03	4.59E+04
Cadmium	3	2.00E+00	7.00E+00	1.40E+01
Calcium	2	1.61E+04	1.73E+04	1.85E+04
Chromium	13	5.00E+00	9.36E+01	9.85E+02
Cobalt	6	8.70E+00	2.05E+01	5.60E+01
Copper	20	8.00E+00	1.73E+02	2.22E+03
Iron	22	4.06E+03	1.35E+04	5.37E+04
Lead	18	3.00E+00	2.41E+02	3.12E+03
Magnesium	2	7.16E+03	7.31E+03	7.46E+03
Manganese	11	4.30E+01	2.09E+02	4.61E+02
Mercury	4	2.00E-02	8.66E+00	3.43E+01
Nickel	19	8.00E+00	5.13E+01	3.99E+02
Phosphorus	9	1.83E+02	5.37E+02	1.34E+03
Potassium	2	1.47E+03	1.59E+03	1.70E+03
Silver	1	1.20E+01	1.20E+01	1.20E+01
Tin	2	2.60E+01	5.30E+01	8.00E+01
Vanadium	11	1.40E+01	1.49E+02	1.32E+03
Zinc	19	2.70E+01	4.75E+02	4.26E+03

Notes:
(a) - Only concentrations reported as detected by the laboratory were entered into the database for use in the calculation of statistics for subsurface soil. Therefore, the total number of samples and the percent detected is not presented for this dataset.

Table 3-13
Site H Historical Subsurface Soil and Waste Data Summary

Constituent	Number of Detects (a)	Minimum (mg/kg)	Mean (mg/kg)	Maximum (mg/kg)
VOCs				
1,2-Dichloroethane	1	1.20E-02	1.20E-02	1.20E-02
2-Butanone	5	3.30E-02	1.26E+01	2.72E+01
4-Methyl-2-pentanone	4	9.00E-03	2.33E+00	7.85E+00
Acetone	11	1.50E-02	4.85E+00	2.11E+01
Benzene	7	4.00E-03	1.52E+01	6.13E+01
Chlorobenzene	6	2.40E-02	9.76E+01	4.52E+02
Chloroform	2	5.30E-02	1.23E-01	1.92E-01
Dichloromethane	11	6.00E-03	6.34E+00	5.56E+01
Ethylbenzene	3	4.38E+00	9.06E+00	1.28E+01
Tetrachloroethene	1	5.65E+00	5.65E+00	5.65E+00
Toluene	5	1.45E-01	2.28E+01	7.65E+01
Trichloroethylene	1	1.00E-02	1.00E-02	1.00E-02
Xylenes, Total	3	1.51E+00	1.48E+01	2.36E+01
SVOCs				
1,2,4-Trichlorobenzene	6	6.10E-02	1.33E+03	7.58E+03
1,2-Dichlorobenzene	3	5.48E-01	6.48E+03	1.94E+04
1,3-Dichlorobenzene	3	7.65E+00	8.76E+01	2.42E+02
1,4-Dichlorobenzene	5	6.20E-02	6.32E+03	3.06E+04
2,4,6-Trichlorophenol	2	1.79E-01	3.07E+02	6.13E+02
2,4-Dichlorophenol	5	1.67E-01	1.50E+02	7.42E+02
2,4-Dimethylphenol	1	9.20E-02	9.20E-02	9.20E-02
2-Methylnaphthalene	3	1.56E-01	1.16E+02	3.47E+02
4-Methylphenol	1	1.72E-01	1.72E-01	1.72E-01
4-Nitroaniline	1	1.83E+03	1.83E+03	1.83E+03
Acenaphthylene	3	1.30E-01	1.26E+02	3.78E+02
Anthracene	4	1.29E-01	1.70E+02	6.80E+02
Benzo(a)anthracene	3	5.54E-01	1.26E+02	3.78E+02
Benzo(a)pyrene	2	7.80E-01	1.36E+02	2.72E+02
Benzo(b)fluoranthene	3	4.42E-01	7.10E+01	2.11E+02
Benzo(g,h,I)perylene	2	4.94E-01	5.69E+01	1.13E+02
Benzoic acid	2	1.41E+00	2.02E+00	2.64E+00
Benzyl alcohol	1	7.92E+00	7.92E+00	7.92E+00
bis(2-ethylhexyl)phthalate	4	2.51E-01	4.28E-01	6.14E-01
Chrysene	3	7.50E-01	1.12E+02	3.32E+02
Dibenzo(a,h)anthracene	1	3.17E+01	3.17E+01	3.17E+01
Dibenzofuran	4	1.43E-01	1.55E+01	6.04E+01
Di-n-butylphthalate	8	3.43E-01	4.03E+00	2.57E+01
Fluoranthene	4	1.45E-01	3.33E+02	1.33E+03
Fluorene	3	2.47E-01	1.61E+02	4.83E+02
Hexachlorobenzene	1	7.14E-01	7.14E-01	7.14E-01
Indeno(1,2,3-cd)pyrene	1	1.36E+02	1.36E+02	1.36E+02
Naphthalene	4	4.40E-02	5.67E+02	2.27E+03
N-Nitrosodiphenylamine	1	1.00E-07	1.00E-07	1.00E-07
Phenanthrene	6	4.70E-02	3.53E+02	2.11E+03
Phenol	1	4.22E-01	4.22E-01	4.22E-01
Pyrene	3	9.35E-01	2.22E+02	6.64E+02

Table 3-13
Site H Historical Subsurface Soil and Waste Data Summary

Constituent	Number of Detects (a)	Minimum (mg/kg)	Mean (mg/kg)	Maximum (mg/kg)
Pesticides				
4,4'-DDD	1	4.31E-01	4.31E-01	4.31E-01
4,4'-DDE	2	5.04E-01	6.42E-01	7.80E-01
4,4'-DDT	2	7.80E-01	8.52E-01	9.23E-01
PCBs				
Total PCBs	7	2.51E-01	2.73E+03	1.80E+04
Metals				
Aluminum	11	4.50E+02	3.85E+03	1.21E+04
Arsenic	2	3.00E+00	1.45E+01	2.60E+01
Barium	11	3.80E+01	6.05E+02	3.24E+03
Cadmium	4	5.00E+00	1.88E+02	2.94E+02
Chromium	8	4.00E+00	4.21E+01	1.00E+02
Cobalt	5	3.00E+00	3.64E+01	1.05E+02
Copper	8	3.00E+00	5.36E+02	2.44E+03
Cyanide, Total	2	2.00E+00	2.00E+00	2.00E+00
Iron	11	5.10E+02	2.32E+04	8.45E+04
Lead	2	4.00E+00	5.77E+02	1.15E+03
Manganese	11	7.00E+00	3.86E+03	3.65E+04
Mercury	3	8.00E-01	2.03E+00	3.90E+00
Nickel	10	4.00E+00	1.77E+03	1.51E+04
Selenium	1	2.00E+00	2.00E+00	2.00E+00
Silver	2	9.00E+00	2.65E+01	4.40E+01
Thallium	1	1.00E+00	1.00E+00	1.00E+00
Tin	3	1.40E+01	5.50E+01	1.11E+02
Vanadium	6	7.00E+00	3.23E+01	9.50E+01
Zinc	11	8.00E+00	4.74E+03	3.95E+04

Notes:
(a) - Only concentrations reported as detected by the laboratory were entered into the database for use in the calculation of statistics for subsurface soil. Therefore, the total number of samples and the percent detected is not presented for this dataset.

Table 3-14
Site I Historical Subsurface Soil and Waste Data Summary

Constituent	Number of Detects (a)	Minimum (mg/kg)	Mean (mg/kg)	Maximum (mg/kg)
VOCs				
1,1,1-Trichloroethane	2	4.32E-01	1.06E+00	1.69E+00
1,2-Dichloroethene (trans)	1	3.00E-03	3.00E-03	3.00E-03
2-Butanone	15	1.20E-02	6.86E+00	1.69E+01
4-Methyl-2-pentanone	2	1.00E-03	2.08E+00	4.16E+00
Acetone	16	5.49E-01	6.66E+00	1.69E+01
Benzene	10	2.30E-02	3.81E+00	2.41E+01
Chlorobenzene	12	1.00E-02	3.47E+01	1.27E+02
Dichloromethane	16	7.00E-03	1.52E+00	6.77E+00
Ethylbenzene	10	9.60E-02	4.65E+00	1.51E+01
Tetrachloroethene	5	6.12E-01	2.57E+00	5.27E+00
Toluene	11	4.80E-02	1.13E+01	7.79E+01
Trichloroethylene	2	6.48E-01	2.23E+00	3.81E+00
Xylenes, Total	10	8.00E-02	4.96E+00	1.92E+01
SVOCs				
1,2,4-Trichlorobenzene	8	6.71E+00	1.40E+03	8.26E+03
1,2-Dichlorobenzene	6	2.68E+00	8.29E+01	3.24E+02
1,3-Dichlorobenzene	2	1.89E+01	4.45E+01	7.01E+01
1,4-Dichlorobenzene	8	1.60E+00	2.55E+02	1.84E+03
2,4-Dichlorophenol	1	9.00E+00	9.00E+00	9.00E+00
2-Methylnaphthalene	7	1.70E+00	3.85E+01	1.69E+02
4-Chloroaniline	1	4.32E+01	4.32E+01	4.32E+01
Acenaphthene	1	1.40E+01	1.40E+01	1.40E+01
Anthracene	2	2.31E+01	1.13E+02	2.03E+02
Benzo(a)anthracene	2	2.47E+00	4.59E+00	6.72E+00
Benzo(a)pyrene	1	2.47E+00	2.47E+00	2.47E+00
Benzo(b)fluoranthene	2	1.51E+00	1.70E+01	3.24E+01
Benzoic acid	1	6.21E+01	6.21E+01	6.21E+01
Benzyl Butyl Phthalate	1	1.39E+02	1.39E+02	1.39E+02
bis(2-ethylhexyl)phthalate	7	2.38E+00	3.49E+01	1.31E+02
Chrysene	2	3.97E+00	4.78E+00	5.59E+00
Dibenzofuran	1	5.59E+00	5.59E+00	5.59E+00
Diethyl Phthalate	1	1.69E+01	1.69E+01	1.69E+01
Di-n-butylphthalate	8	1.34E-01	3.71E+01	2.03E+02
Fluoranthene	3	8.91E+00	7.69E+01	2.03E+02
Fluorene	3	3.08E+00	1.49E+01	3.54E+01
Hexachlorobenzene	7	3.23E+01	2.58E+02	1.27E+03
Hexachloroethane	1	3.01E+00	3.01E+00	3.01E+00
Naphthalene	7	1.10E+00	9.81E+01	5.15E+02
N-Nitrosodiphenylamine	2	4.59E+01	7.31E+01	1.00E+02
Phenanthrene	5	1.32E+00	3.43E+01	1.02E+02
Phenol	2	1.52E+01	2.11E+01	2.70E+01
Pyrene	4	2.21E+00	1.96E+01	4.93E+01
Pesticides				
4,4'-DDD	2	6.64E+00	1.82E+01	2.97E+01
4,4'-DDT	1	4.31E+00	4.31E+00	4.31E+00
Toxaphene	1	4.93E+02	4.93E+02	4.93E+02

Table 3-14
Site I Historical Subsurface Soil and Waste Data Summary

Constituent	Number of Detects (a)	Minimum (mg/kg)	Mean (mg/kg)	Maximum (mg/kg)
Herbicides				
Pentachlorophenol	1	1.92E+02	1.92E+02	1.92E+02
PCBs				
Total PCBs	5	2.04E+01	1.81E+02	3.43E+02
Metals				
Aluminum	16	1.01E+03	4.17E+03	1.35E+04
Antimony	3	1.40E+01	2.23E+03	6.66E+03
Arsenic	9	1.00E+00	6.56E+00	1.40E+01
Barium	10	8.00E+00	9.83E+02	3.60E+03
Beryllium	1	1.53E+03	1.53E+03	1.53E+03
Cadmium	7	2.00E+00	5.57E+00	1.30E+01
Chromium	14	4.00E+00	7.61E+01	7.31E+02
Cobalt	7	1.30E+01	3.89E+01	1.40E+02
Copper	8	2.30E+01	2.98E+02	6.30E+02
Cyanide, Total	3	2.00E+00	1.06E+03	3.18E+03
Iron	16	5.43E+02	1.17E+04	4.15E+04
Lead	15	3.00E+00	2.06E+03	2.33E+04
Manganese	1	9.80E+01	9.80E+01	9.80E+01
Mercury	5	5.00E-01	1.70E+00	3.20E+00
Nickel	12	9.00E-01	3.35E+02	2.41E+03
Selenium	1	1.32E+03	1.32E+03	1.32E+03
Tin	9	2.00E+00	1.92E+01	5.50E+01
Vanadium	7	1.80E+01	1.07E+02	5.53E+02
Zinc	16	1.30E+01	6.24E+02	6.33E+03

Notes:
(a) - Only concentrations reported as detected by the laboratory were entered into the database for use in the calculation of statistics for subsurface soil. Therefore, the total number of samples and the percent detected is not presented for this dataset.

Table 3-15
Site L Historical Subsurface Soil and Waste Data Summary

Constituent	Number of Detects (a)	Minimum (mg/kg)	Mean (mg/kg)	Maximum (mg/kg)
VOCs				
2-Butanone	3	1.60E-02	3.34E+00	1.00E+01
4-Methyl-2-pentanone	4	8.00E-03	7.30E-02	1.67E-01
Acetone	6	1.50E-02	1.01E+00	4.56E+00
Benzene	5	4.00E-03	2.01E+00	5.70E+00
Chlorobenzene	8	1.20E-02	1.25E+00	5.30E+00
Chloroform	3	4.90E-02	6.80E+00	2.03E+01
Dichloromethane	5	5.00E-03	4.89E-01	2.28E+00
Ethylbenzene	1	4.00E-02	4.00E-02	4.00E-02
Toluene	7	5.00E-02	6.65E+01	4.00E+02
Xylenes, Total	4	1.79E-01	3.10E+00	1.10E+01
SVOCs				
1,2,4-Trichlorobenzene	3	5.50E+00	5.25E+01	7.90E+01
1,2-Dichlorobenzene	4	1.00E-02	3.50E+00	7.70E+00
1,3-Dichlorobenzene	1	4.30E+00	4.30E+00	4.30E+00
1,4-Dichlorobenzene	9	1.80E-02	2.34E+01	1.00E+02
2,4,6-Trichlorophenol	1	1.50E+00	1.50E+00	1.50E+00
2,4-Dichlorophenol	2	2.40E+00	6.70E+00	1.10E+01
2-Chlorophenol	3	1.30E-02	1.59E+00	2.60E+00
2-Methylnaphthalene	6	2.10E-01	1.42E+00	3.10E+00
3&4-Methylphenol	4	1.00E-01	1.43E-01	1.90E-01
4-Chloroaniline	6	4.30E-02	9.87E+01	2.70E+02
4-Methylphenol	5	8.80E-02	3.40E+00	7.10E+00
Acenaphthene	3	4.40E-02	1.08E+00	3.10E+00
Acenaphthylene	1	2.80E-01	2.80E-01	2.80E-01
Anthracene	3	2.80E-02	1.46E+00	4.20E+00
Benzo(a)anthracene	4	7.50E-02	2.46E+00	8.60E+00
Benzo(a)pyrene	3	2.20E-02	1.80E+00	5.30E+00
Benzo(b)fluoranthene	3	5.80E-02	1.88E+00	5.40E+00
Benzo(g,h,I)perylene	1	2.70E-02	2.70E-02	2.70E-02
Benzo(k)fluoranthene	1	4.60E+00	4.60E+00	4.60E+00
Benzoic acid	2	4.90E-02	1.62E+00	3.20E+00
Benzyl Butyl Phthalate	1	5.40E+00	5.40E+00	5.40E+00
bis(2-ethylhexyl)phthalate	6	1.70E-02	9.21E-01	2.20E+00
Chrysene	4	7.60E-02	2.20E+00	8.20E+00
Dibenzofuran	2	4.20E-02	1.52E+00	3.00E+00
Diethyl Phthalate	2	3.10E-01	6.55E-01	1.00E+00
Di-n-butylphthalate	4	1.71E-01	1.28E+00	2.78E+00
Fluoranthene	4	1.30E-01	4.27E+00	1.60E+01
Fluorene	2	7.90E-02	2.54E+00	5.00E+00
Hexachlorobenzene	1	4.80E+00	4.80E+00	4.80E+00
Hexachloroethane	1	4.90E-02	4.90E-02	4.90E-02
Indeno(1,2,3-cd)pyrene	2	1.10E-01	1.51E+00	2.90E+00
Naphthalene	4	9.60E-02	2.02E+00	7.30E+00
Phenanthrene	5	9.10E-02	5.18E+00	2.30E+01
Phenol	5	3.46E-01	8.77E+00	1.60E+01
Pyrene	4	1.30E-01	5.96E+00	2.30E+01

Table 3-15
Site L Historical Subsurface Soil and Waste Data Summary

Constituent	Number of Detects (a)	Minimum (mg/kg)	Mean (mg/kg)	Maximum (mg/kg)
Herbicides				
Pentachlorophenol	4	1.15E+01	3.17E+01	5.82E+01
PCBs				
Total PCBs	2	1.60E+01	2.58E+02	5.00E+02
Metals				
Aluminum	11	1.12E+03	5.80E+03	1.28E+04
Antimony	1	3.20E+01	3.20E+01	3.20E+01
Arsenic	10	4.90E+00	5.36E+01	1.72E+02
Barium	15	1.30E+00	3.00E+02	1.44E+03
Cadmium	6	1.90E-02	8.03E+00	4.20E+01
Calcium	6	1.55E+04	2.81E+04	7.55E+04
Chromium	10	3.00E+00	1.16E+01	2.70E+01
Cobalt	7	5.90E+00	7.70E+00	9.00E+00
Copper	10	9.70E+00	9.27E+01	3.08E+02
Cyanide, Total	1	4.60E-01	4.60E-01	4.60E-01
Iron	11	1.40E+03	9.96E+03	2.40E+04
Lead	13	2.20E-01	7.46E+01	6.64E+02
Magnesium	6	3.84E+02	4.91E+03	9.44E+03
Manganese	11	1.00E+01	2.19E+02	7.82E+02
Mercury	7	1.00E-02	3.09E-01	1.80E+00
Nickel	10	2.10E+01	3.78E+02	2.39E+03
Potassium	6	9.75E+02	1.31E+03	2.28E+03
Vanadium	9	7.70E+00	3.23E+01	1.31E+02
Zinc	11	6.40E+00	5.34E+02	4.24E+03

Notes:
(a) - Only concentrations reported as detected by the laboratory were entered into the database for use in the calculation of statistics for subsurface soil. Therefore, the total number of samples and the percent detected is not presented for this dataset.

Table 3-16
Site N Historical Subsurface Soil and Waste Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone	1 : 2	50	1.40E-02	1.40E-02	1.40E-02
4-Methyl-2-pentanone	1 : 2	50	4.00E-03	4.00E-03	4.00E-03
Acetone	2 : 2	100	1.10E-02	2.80E-02	4.50E-02
Dichloromethane	2 : 2	100	4.00E-03	5.00E-03	6.00E-03
SVOCs					
Benzo(a)anthracene	1 : 2	50	2.63E-01	2.63E-01	2.63E-01
Benzo(a)pyrene	1 : 2	50	2.11E-01	2.11E-01	2.11E-01
Benzo(b)fluoranthene	2 : 2	100	1.52E-01	2.20E-01	2.89E-01
bis(2-Ethylhexyl)phthalate	2 : 2	100	9.34E-01	1.10E+00	1.27E+00
Chrysene	1 : 2	50	2.76E-01	2.76E-01	2.76E-01
Fluoranthene	2 : 2	100	2.53E-01	4.69E-01	6.84E-01
Phenanthrene	2 : 2	100	2.03E-01	3.19E-01	4.34E-01
Pyrene	2 : 2	100	2.15E-01	3.84E-01	5.53E-01
Metals					
Aluminum	2 : 2	100	1.92E+03	3.34E+03	4.76E+03
Arsenic	2 : 2	100	2.00E+00	2.50E+00	3.00E+00
Barium	2 : 2	100	4.60E+01	8.80E+01	1.30E+02
Chromium	2 : 2	100	5.00E+00	6.50E+00	8.00E+00
Cobalt	2 : 2	100	3.00E+00	3.50E+00	4.00E+00
Copper	2 : 2	100	5.00E+00	7.50E+00	1.00E+01
Iron	2 : 2	100	8.20E+02	3.54E+03	6.25E+03
Lead	2 : 2	100	2.40E+01	2.90E+01	3.40E+01
Manganese	2 : 2	100	8.20E+01	1.23E+02	1.64E+02
Mercury	1 : 2	50	9.00E+00	9.00E+00	9.00E+00
Nickel	1 : 2	50	1.10E+01	1.10E+01	1.10E+01
Zinc	2 : 2	100	4.20E+01	5.35E+01	6.50E+01

Notes:
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.
(d) Samples were collected in 1986 by Ecology & Environment, Inc.

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Table 3-17
Site G Upwind Ambient Air Data Summary

Constituent	FOD (a)	%FOD (b)	Units	Minimum (c)	Mean (c)	Maximum (c)
VOCs						
Ethylbenzene	2 : 4	50	ug/m3	1.79E+00	2.29E+00	2.79E+00
Methylene chloride (Dichloromethane)	1 : 4	25	ug/m3	1.46E+02	1.46E+02	1.46E+02
SVOCs						
1,4-Dichlorobenzene	1 : 2	50	ug/m3	1.62E-02	1.62E-02	1.62E-02
2-Methylnaphthalene	2 : 2	100	ug/m3	1.04E-01	1.12E-01	1.20E-01
Acenaphthene	1 : 2	50	ug/m3	2.03E-02	2.03E-02	2.03E-02
bis(2-Ethylhexyl)phthalate	1 : 2	50	ug/m3	7.00E-02	7.00E-02	7.00E-02
Dibenzofuran	2 : 2	100	ug/m3	2.01E-02	2.12E-02	2.23E-02
Diethylphthalate	1 : 2	50	ug/m3	4.87E-02	4.87E-02	4.87E-02
Dimethylphthalate	2 : 2	100	ug/m3	4.87E-02	5.10E-02	5.33E-02
Fluorene	1 : 2	50	ug/m3	1.72E-02	1.72E-02	1.72E-02
Phenanthrene	2 : 2	100	ug/m3	1.79E-02	2.24E-02	2.70E-02
Dioxin						
Dioxin TEQ-HH	2 : 2	100	pg/m3	1.02E-02	1.25E-02	1.48E-02
Metals						
Aluminum	1 : 2	50	mg/m3	9.80E-04	9.80E-04	9.80E-04
Cadmium	2 : 2	100	mg/m3	2.20E-05	2.70E-05	3.20E-05
Calcium	2 : 2	100	mg/m3	5.11E-04	5.36E-04	5.61E-04
Copper	1 : 2	50	mg/m3	1.08E-04	1.08E-04	1.08E-04
Lead	2 : 2	100	mg/m3	2.33E-04	2.70E-04	3.07E-04
Magnesium	2 : 2	100	mg/m3	5.61E-05	6.21E-05	6.82E-05

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-18
Site G Downwind Ambient Air Data Summary

Constituent	FOD (a)	%FOD (b)	Units	Minimum (c)	Mean (c)	Maximum (c)
VOCs						
2-Butanone (MEK)	1 : 4	25	ug/m3	1.68E+01	1.68E+01	1.68E+01
4-Methyl-2-pentanone (MIBK)	1 : 4	25	ug/m3	6.19E+01	6.19E+01	6.19E+01
Acetone	1 : 4	25	ug/m3	7.17E+02	7.17E+02	7.17E+02
Ethylbenzene	2 : 4	50	ug/m3	1.45E+00	7.36E+00	1.33E+01
Methylene chloride (Dichloromethane)	2 : 4	50	ug/m3	6.81E+01	1.24E+03	2.42E+03
Styrene	1 : 4	25	ug/m3	1.59E+01	1.59E+01	1.59E+01
Tetrachloroethene	1 : 4	25	ug/m3	2.92E+00	2.92E+00	2.92E+00
Toluene	1 : 4	25	ug/m3	1.59E+02	1.59E+02	1.59E+02
SVOCs						
2-Methylnaphthalene	2 : 2	100	ug/m3	1.13E-01	1.28E-01	1.44E-01
Acenaphthene	2 : 2	100	ug/m3	1.82E-02	2.10E-02	2.37E-02
bis(2-Ethylhexyl)phthalate	2 : 2	100	ug/m3	6.29E-02	7.27E-02	8.25E-02
Dibenzofuran	2 : 2	100	ug/m3	1.85E-02	2.20E-02	2.54E-02
Diethylphthalate	1 : 2	50	ug/m3	2.54E-02	2.54E-02	2.54E-02
Dimethylphthalate	2 : 2	100	ug/m3	3.16E-02	3.90E-02	4.64E-02
Fluorene	2 : 2	100	ug/m3	1.72E-02	2.05E-02	2.37E-02
Phenanthrene	2 : 2	100	ug/m3	2.75E-02	2.99E-02	3.23E-02
Dioxin						
Dioxin TEQ-HH	2 : 2	100	pg/m3	8.34E-03	2.52E-02	4.21E-02
Metals						
Cadmium	2 : 2	100	mg/m3	2.72E-05	2.83E-05	2.93E-05
Calcium	1 : 2	50	mg/m3	4.67E-04	4.67E-04	4.67E-04
Copper	1 : 2	50	mg/m3	1.02E-04	1.02E-04	1.02E-04
Lead	2 : 2	100	mg/m3	2.72E-04	2.78E-04	2.85E-04
Magnesium	2 : 2	100	mg/m3	4.67E-05	4.68E-05	4.68E-05

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-19
Site H Upwind Ambient Air Data Summary

Constituent	FOD (a)	%FOD (b)	Units	Minimum (c)	Mean (c)	Maximum (c)
VOCs						
1,1-Dichloroethene	1 : 2	50	ug/m3	2.71E+01	2.71E+01	2.71E+01
SVOCs						
1,4-Dichlorobenzene	1 : 1	100	ug/m3	4.94E-02	4.94E-02	4.94E-02
2-Methylnaphthalene	1 : 1	100	ug/m3	8.95E-02	8.95E-02	8.95E-02
Acenaphthene	1 : 1	100	ug/m3	2.10E-02	2.10E-02	2.10E-02
bis(2-Ethylhexyl)phthalate	1 : 1	100	ug/m3	5.25E-02	5.25E-02	5.25E-02
Dibenzofuran	1 : 1	100	ug/m3	2.07E-02	2.07E-02	2.07E-02
Diethylphthalate	1 : 1	100	ug/m3	2.28E-02	2.28E-02	2.28E-02
Dimethylphthalate	1 : 1	100	ug/m3	4.32E-02	4.32E-02	4.32E-02
Fluorene	1 : 1	100	ug/m3	1.91E-02	1.91E-02	1.91E-02
Phenanthrene	1 : 1	100	ug/m3	4.01E-02	4.01E-02	4.01E-02
Dioxin						
Dioxin TEQ-HH	1 : 1	100	pg/m3	2.60E-03	2.60E-03	2.60E-03
Metals						
Copper	1 : 1	100	mg/m3	7.50E-04	7.50E-04	7.50E-04
Lead	1 : 1	100	mg/m3	2.29E-05	2.29E-05	2.29E-05

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-20
Site H Downwind Ambient Air Data Summary

Constituent	FOD (a)	%FOD (b)	Units	Minimum (c)	Mean (c)	Maximum (c)
VOCs						
1,1,1-Trichloroethane	1 : 4	25	ug/m3	6.37E+00	6.37E+00	6.37E+00
1,1-Dichloroethene	1 : 4	25	ug/m3	2.20E+01	2.20E+01	2.20E+01
2-Butanone (MEK)	1 : 4	25	ug/m3	2.47E+01	2.47E+01	2.47E+01
Acetone	1 : 4	25	ug/m3	2.40E+01	2.40E+01	2.40E+01
Ethylbenzene	1 : 4	25	ug/m3	1.82E+00	1.82E+00	1.82E+00
Methylene chloride (Dichloromethane)	1 : 4	25	ug/m3	1.10E+01	1.10E+01	1.10E+01
Tetrachloroethene	1 : 4	25	ug/m3	9.09E-01	9.09E-01	9.09E-01
Trichloroethene	1 : 4	25	ug/m3	3.44E+00	3.44E+00	3.44E+00
SVOCs						
1,4-Dichlorobenzene	2 : 2	100	ug/m3	4.14E-02	5.26E-02	6.38E-02
2-Methylnaphthalene	2 : 2	100	ug/m3	8.58E-02	9.91E-02	1.12E-01
Acenaphthene	2 : 2	100	ug/m3	1.78E-02	2.01E-02	2.25E-02
Dibenzofuran	2 : 2	100	ug/m3	1.75E-02	1.94E-02	2.13E-02
Dimethylphthalate	2 : 2	100	ug/m3	3.25E-02	5.27E-02	7.29E-02
Fluorene	2 : 2	100	ug/m3	1.51E-02	1.76E-02	2.01E-02
Phenanthrene	2 : 2	100	ug/m3	2.72E-02	2.88E-02	3.04E-02
Dioxin						
Dioxin TEQ-HH	2 : 2	100	pg/m3	5.65E-03	1.09E-02	1.61E-02
Metals						
Calcium	2 : 2	100	mg/m3	5.42E-04	7.28E-04	9.14E-04
Copper	2 : 2	100	mg/m3	3.36E-04	4.60E-04	5.83E-04
Lead	2 : 2	100	mg/m3	2.37E-05	2.52E-05	2.67E-05
Magnesium	2 : 2	100	mg/m3	7.89E-05	8.94E-05	1.00E-04
Manganese	1 : 2	50	mg/m3	5.40E-06	5.40E-06	5.40E-06

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-21
Site I Upwind Ambient Air Data Summary

Constituent	FOD (a)	%FOD (b)	Units	Minimum (c)	Mean (c)	Maximum (c)
VOCs						
2-Butanone (MEK)	1 : 2	50	ug/m3	2.40E+01	2.40E+01	2.40E+01
Acetone	1 : 2	50	ug/m3	2.29E+02	2.29E+02	2.29E+02
Methylene chloride (Dichloromethane)	1 : 2	50	ug/m3	2.95E+02	2.95E+02	2.95E+02
Trichloroethene	1 : 2	50	ug/m3	4.80E+00	4.80E+00	4.80E+00
SVOCs						
1,4-Dichlorobenzene	1 : 1	100	ug/m3	8.46E-02	8.46E-02	8.46E-02
2-Methylnaphthalene	1 : 1	100	ug/m3	1.36E-01	1.36E-01	1.36E-01
Dimethylphthalate	1 : 1	100	ug/m3	3.93E-02	3.93E-02	3.93E-02
Phenanthrene	1 : 1	100	ug/m3	3.32E-02	3.32E-02	3.32E-02
Dioxin						
Dioxin TEQ-HH	1 : 1	100	pg/m3	6.35E-02	6.35E-02	6.35E-02
Metals						
Calcium	1 : 1	100	mg/m3	6.25E-04	6.25E-04	6.25E-04
Copper	1 : 1	100	mg/m3	3.13E-04	3.13E-04	3.13E-04
Lead	1 : 1	100	mg/m3	2.21E-05	2.21E-05	2.21E-05
Magnesium	1 : 1	100	mg/m3	5.83E-05	5.83E-05	5.83E-05

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-22
Site I Downwind Ambient Air Data Summary

Constituent	FOD (a)	%FOD (b)	Units	Minimum (c)	Mean (c)	Maximum (c)
VOCs						
Ethylbenzene	1 : 4	25	ug/m3	1.69E+00	1.69E+00	1.69E+00
Methylene chloride (Dichloromethane)	2 : 4	50	ug/m3	1.12E+01	1.05E+03	2.09E+03
SVOCs						
1,2-Dichlorobenzene	2 : 2	100	ug/m3	8.31E-02	1.71E-01	2.59E-01
1,4-Dichlorobenzene	2 : 2	100	ug/m3	2.86E-01	3.53E-01	4.20E-01
2-Methylnaphthalene	2 : 2	100	ug/m3	1.02E-01	1.12E-01	1.22E-01
2-Nitroaniline	1 : 2	50	ug/m3	2.94E-02	2.94E-02	2.94E-02
Acenaphthene	2 : 2	100	ug/m3	3.08E-02	3.46E-02	3.85E-02
bis(2-Ethylhexyl)phthalate	2 : 2	100	ug/m3	6.99E-02	7.19E-02	7.38E-02
Dibenzofuran	2 : 2	100	ug/m3	3.38E-02	3.62E-02	3.85E-02
Dimethylphthalate	2 : 2	100	ug/m3	3.29E-02	4.57E-02	5.85E-02
Fluorene	2 : 2	100	ug/m3	2.62E-02	2.93E-02	3.25E-02
Phenanthrene	2 : 2	100	ug/m3	4.31E-02	5.13E-02	5.94E-02
Dioxin						
Dioxin TEQ-HH	2 : 2	100	pg/m3	2.37E-02	2.96E-02	3.54E-02
Metals						
Cadmium	1 : 2	50	mg/m3	2.08E-05	2.08E-05	2.08E-05
Calcium	1 : 2	50	mg/m3	5.00E-04	5.00E-04	5.00E-04
Copper	2 : 2	100	mg/m3	1.50E-04	1.79E-04	2.08E-04
Lead	2 : 2	100	mg/m3	2.04E-05	2.33E-05	2.63E-05
Magnesium	2 : 2	100	mg/m3	5.83E-05	6.25E-05	6.67E-05
Manganese	2 : 2	100	mg/m3	6.25E-06	6.25E-06	6.25E-06
Sodium	1 : 2	50	mg/m3	5.42E-04	5.42E-04	5.42E-04

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-23
Site L Upwind Ambient Air Data Summary

Constituent	FOD (a)	%FOD (b)	Units	Minimum (c)	Mean (c)	Maximum (c)
VOCs						
Ethylbenzene	1 : 2	50	ug/m3	1.31E+00	1.31E+00	1.31E+00
SVOCs						
2-Methylnaphthalene	1 : 1	100	ug/m3	1.54E-01	1.54E-01	1.54E-01
Acenaphthene	1 : 1	100	ug/m3	3.36E-02	3.36E-02	3.36E-02
bis(2-Ethylhexyl)phthalate	1 : 1	100	ug/m3	7.38E-02	7.38E-02	7.38E-02
Dibenzofuran	1 : 1	100	ug/m3	3.69E-02	3.69E-02	3.69E-02
Diethylphthalate	1 : 1	100	ug/m3	2.38E-02	2.38E-02	2.38E-02
Dimethylphthalate	1 : 1	100	ug/m3	3.09E-02	3.09E-02	3.09E-02
Fluorene	1 : 1	100	ug/m3	2.89E-02	2.89E-02	2.89E-02
Phenol	1 : 1	100	ug/m3	6.04E-02	6.04E-02	6.04E-02
Dioxin						
Dioxin TEQ-HH	1 : 1	100	pg/m3	3.29E-02	3.29E-02	3.29E-02
Metals						
Cadmium	1 : 1	100	mg/m3	2.92E-05	2.92E-05	2.92E-05
Calcium	1 : 1	100	mg/m3	1.29E-03	1.29E-03	1.29E-03
Iron	1 : 1	100	mg/m3	5.00E-04	5.00E-04	5.00E-04
Lead	1 : 1	100	mg/m3	3.00E-04	3.00E-04	3.00E-04
Magnesium	1 : 1	100	mg/m3	3.00E-04	3.00E-04	3.00E-04
Nickel	1 : 1	100	mg/m3	5.83E-06	5.83E-06	5.83E-06

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-24
Site L Downwind Ambient Air Data Summary

Constituent	FOD (a)	%FOD (b)	Units	Minimum (c)	Mean (c)	Maximum (c)
VOCs						
2-Butanone (MEK)	1 : 4	25	ug/m3	3.05E+01	3.05E+01	3.05E+01
Methylene chloride (Dichloromethane)	1 : 4	25	ug/m3	8.90E+02	8.90E+02	8.90E+02
SVOCs						
1,4-Dichlorobenzene	2 : 2	100	ug/m3	1.73E-02	2.07E-02	2.40E-02
2-Methylnaphthalene	2 : 2	100	ug/m3	1.23E-01	1.36E-01	1.49E-01
Acenaphthene	2 : 2	100	ug/m3	2.33E-02	2.82E-02	3.31E-02
bis(2-Ethylhexyl)phthalate	1 : 2	50	ug/m3	7.77E-02	7.77E-02	7.77E-02
Dibenzofuran	2 : 2	100	ug/m3	2.80E-02	3.26E-02	3.72E-02
Diethylphthalate	1 : 2	50	ug/m3	3.24E-02	3.24E-02	3.24E-02
Dimethylphthalate	2 : 2	100	ug/m3	2.80E-02	3.43E-02	4.05E-02
Fluorene	2 : 2	100	ug/m3	2.30E-02	2.64E-02	2.97E-02
Phenanthrene	1 : 2	50	ug/m3	3.67E-02	3.67E-02	3.67E-02
Dioxin						
Dioxin TEQ-HH	2 : 2	100	pg/m3	7.17E-02	8.07E-02	8.98E-02
Metals						
Cadmium	2 : 2	100	mg/m3	2.68E-05	2.74E-05	2.81E-05
Lead	2 : 2	100	mg/m3	2.68E-04	2.74E-04	2.81E-04
Magnesium	2 : 2	100	mg/m3	4.68E-05	5.74E-05	6.80E-05
Silver	1 : 2	50	mg/m3	3.57E-05	3.57E-05	3.57E-05
Sodium	2 : 2	100	mg/m3	5.10E-04	5.32E-04	5.53E-04

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-25
Upgradient Groundwater Data Summary

Constituent (d)	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs						
Benzene	71-43-2	3 : 9	33	4.70E-01	2.67E+00	**6.55E+00**
Carbon disulfide	75-15-0	1 : 9	11	1.30E+01	1.30E+01	1.30E+01
Ethylbenzene	100-41-4	1 : 9	11	1.60E+00	1.60E+00	1.60E+00
Trichloroethene	79-01-6	1 : 9	11	5.70E-01	5.70E-01	5.70E-01
Xylenes, Total	1330-20-7	1 : 9	11	1.10E+01	1.10E+01	1.10E+01
SVOCs						
Acenaphthene	83-32-9	1 : 9	11	8.00E+00	8.00E+00	8.00E+00
Benzo(a)anthracene	56-55-3	1 : 9	11	**9.70E-01**	**9.70E-01**	**9.70E-01**
Benzo(g,h,i)perylene	191-24-2	1 : 9	11	8.20E-01	8.20E-01	8.20E-01
Chrysene	218-01-9	1 : 9	11	1.30E+00	1.30E+00	1.30E+00
Dibenzofuran	132-64-9	1 : 9	11	3.60E-01	3.60E-01	3.60E-01
Diethylphthalate	84-66-2	1 : 9	11	3.50E-01	3.50E-01	3.50E-01
Fluorene	86-73-7	1 : 9	11	2.40E-01	2.40E-01	2.40E-01
Naphthalene	91-20-3	1 : 9	11	**9.90E+01**	**9.90E+01**	**9.90E+01**
N-Nitrosodiphenylamine	122-39-4	1 : 9	11	2.50E-01	2.50E-01	2.50E-01
Pesticides						
delta-BHC	319-86-8	2 : 9	22	1.50E-03	4.13E-03	6.75E-03
Endosulfan sulfate	1031-07-8	1 : 9	11	1.00E-03	1.00E-03	1.00E-03
Endrin ketone	53494-70-5	1 : 9	11	2.10E-03	2.10E-03	2.10E-03
gamma-BHC (Lindane)	58-89-9	1 : 9	11	6.20E-04	6.20E-04	6.20E-04
Heptachlor	76-44-8	2 : 9	22	9.90E-04	9.95E-04	1.00E-03
Heptachlor epoxide	1024-57-3	1 : 9	11	1.60E-03	1.60E-03	1.60E-03
Herbicides						
2,4,5-T	93-76-5	1 : 9	11	2.10E-01	2.10E-01	2.10E-01
2,4,5-TP (Silvex)	93-72-1	1 : 9	11	1.60E-01	1.60E-01	1.60E-01
Dioxin						
Dioxin TEQ-HH	1746-01-6	6 : 9	67	3.26E-06	8.21E-06	1.90E-05
Metals						
Aluminum	7429-90-5	6 : 9	67	**4.60E+02**	**8.31E+03**	**2.40E+04**
Arsenic	7440-38-2	4 : 9	44	3.80E+00	**1.03E+01**	**1.60E+01**
Barium	7440-39-3	9 : 9	100	1.10E+02	5.46E+02	9.70E+02
Beryllium	7440-41-7	2 : 9	22	9.60E-01	9.65E-01	9.70E-01
Calcium	7440-70-2	9 : 9	100	1.00E+05	1.71E+05	3.30E+05
Chromium	7440-47-3	8 : 9	89	2.90E+00	6.81E+01	**1.80E+02**
Cobalt	7440-48-4	4 : 9	44	4.70E+00	**1.12E+01**	**1.80E+01**
Copper	7440-50-8	6 : 9	67	1.40E+00	1.72E+01	5.20E+01
Iron	7439-89-6	9 : 9	100	7.30E+01	**2.57E+04**	**8.00E+04**
Lead	7439-92-1	3 : 9	33	6.10E+00	**1.64E+01**	**2.20E+01**
Magnesium	7439-95-4	9 : 9	100	2.30E+04	4.33E+04	6.20E+04
Manganese	7439-96-5	9 : 9	100	**7.40E+01**	**9.07E+02**	**1.60E+03**
Molybdenum	7439-98-7	5 : 9	56	2.80E+00	1.83E+01	4.90E+01
Nickel	7440-02-0	8 : 9	89	5.10E+00	4.17E+01	1.75E+02
Potassium	7440-09-7	9 : 9	100	2.50E+03	2.58E+04	1.70E+05
Sodium	7440-23-5	9 : 9	100	8.50E+03	3.79E+04	1.00E+05
Vanadium	7440-62-2	6 : 9	67	2.60E+00	2.21E+01	5.40E+01
Zinc	7440-66-6	6 : 9	67	1.60E+01	2.10E+02	1.00E+03

Table 3-25
Upgradient Groundwater Data Summary

Notes:
2,4,5-T - 2,4,5-Trichlorophenoxy acetic acid.
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-26
Site G Source Area Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs						
4-Methyl-2-pentanone (MIBK)	108-10-1	1 : 2	50	1.30E+03	1.30E+03	1.30E+03
Acetone	67-64-1	1 : 2	50	5.90E+02	5.90E+02	5.90E+02
Benzene	71-43-2	2 : 2	100	1.10E+02	1.91E+03	3.70E+03
Chlorobenzene	108-90-7	2 : 2	100	6.20E+02	2.46E+03	4.30E+03
Cis/Trans-1,2-Dichloroethene	540-59-0	2 : 2	100	4.20E+01	1.16E+02	1.90E+02
Ethylbenzene	100-41-4	1 : 2	50	3.20E+01	3.20E+01	3.20E+01
Tetrachloroethene	127-18-4	1 : 2	50	1.70E+02	1.70E+02	1.70E+02
Toluene	108-88-3	2 : 2	100	9.70E+02	4.74E+03	8.50E+03
Trichloroethene	79-01-6	2 : 2	100	1.80E+01	1.09E+02	2.00E+02
Vinyl chloride	75-01-4	1 : 2	50	4.10E+01	4.10E+01	4.10E+01
Xylenes, Total	1330-20-7	1 : 2	50	1.30E+02	1.30E+02	1.30E+02
SVOCs						
1,2,4-Trichlorobenzene	120-82-1	2 : 2	100	1.60E+00	9.08E+01	1.80E+02
1,2-Dichlorobenzene	95-50-1	2 : 2	100	5.70E+00	1.53E+02	3.00E+02
1,3-Dichlorobenzene	541-73-1	1 : 2	50	1.90E+00	1.90E+00	1.90E+00
1,4-Dichlorobenzene	106-46-7	2 : 2	100	1.60E+01	4.33E+02	8.50E+02
2,4-Dichlorophenol	120-83-2	2 : 2	100	3.10E+00	1.80E+03	3.60E+03
2-Chlorophenol	95-57-8	2 : 2	100	3.80E+01	3.34E+02	6.30E+02
2-Methylphenol (o-cresol)	95-48-7	2 : 2	100	2.60E+01	1.28E+02	2.30E+02
3-Methylphenol/4-Methylphenol	106-44-5	2 : 2	100	1.30E+02	1.27E+03	2.40E+03
4-Chloroaniline	106-47-8	2 : 2	100	1.60E+03	1.23E+04	2.30E+04
4-Nitroaniline	100-01-6	1 : 2	50	8.40E+00	8.40E+00	8.40E+00
Diethylphthalate	84-66-2	1 : 2	50	7.10E+00	7.10E+00	7.10E+00
Naphthalene	91-20-3	2 : 2	100	3.90E+02	1.25E+03	2.10E+03
Phenol	108-95-2	2 : 2	100	3.80E+02	7.19E+03	1.40E+04
Pesticides						
4,4'-DDD	72-54-8	1 : 2	50	2.40E-02	2.40E-02	2.40E-02
4,4'-DDE	72-55-9	1 : 2	50	1.40E-03	1.40E-03	1.40E-03
alpha-BHC	319-84-6	2 : 2	100	2.40E-02	3.01E+00	6.00E+00
delta-BHC	319-86-8	2 : 2	100	3.60E-01	8.68E+00	1.70E+01
Dieldrin	60-57-1	1 : 2	50	2.00E-02	2.00E-02	2.00E-02
Endrin	72-20-8	1 : 2	50	2.40E-02	2.40E-02	2.40E-02
Endrin aldehyde	7421-93-4	1 : 2	50	9.20E-02	9.20E-02	9.20E-02
Gamma Chlordane	5103-74-2	1 : 2	50	8.00E-03	8.00E-03	8.00E-03
Heptachlor	76-44-8	1 : 2	50	2.60E-02	2.60E-02	2.60E-02
Heptachlor epoxide	1024-57-3	1 : 2	50	2.40E-02	2.40E-02	2.40E-02
Methoxychlor	72-43-5	1 : 2	50	6.90E-02	6.90E-02	6.90E-02
Herbicides						
2,4,5-T	93-76-5	1 : 2	50	2.40E+01	2.40E+01	2.40E+01
2,4,5-TP (Silvex)	93-72-1	1 : 2	50	3.90E+02	3.90E+02	3.90E+02
2,4-D	94-75-7	1 : 2	50	1.20E+02	1.20E+02	1.20E+02
Dichloroprop	120-36-5	1 : 2	50	4.70E+01	4.70E+01	4.70E+01
Pentachlorophenol	87-86-5	1 : 2	50	1.90E+01	1.90E+01	1.90E+01
Pentachlorophenol	87-86-5	1 : 1	100	2.00E+03	2.00E+03	2.00E+03
Dioxin						
Dioxin TEQ-HH	1746-01-6	2 : 2	100	2.21E-04	1.90E-03	3.57E-03

Table 3-26
Site G Source Area Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals						
Aluminum	7429-90-5	1 : 2	50	6.10E+02	6.10E+02	6.10E+02
Antimony	7440-36-0	1 : 2	50	8.60E+00	8.60E+00	8.60E+00
Arsenic	7440-38-2	2 : 2	100	1.40E+01	2.95E+01	4.50E+01
Barium	7440-39-3	2 : 2	100	4.00E+02	4.10E+02	4.20E+02
Cadmium	7440-43-9	1 : 2	50	2.60E+00	2.60E+00	2.60E+00
Calcium	7440-70-2	2 : 2	100	2.70E+05	3.95E+05	5.20E+05
Chromium	7440-47-3	1 : 2	50	2.20E+01	2.20E+01	2.20E+01
Cobalt	7440-48-4	2 : 2	100	7.00E+00	7.35E+01	1.40E+02
Copper	7440-50-8	1 : 2	50	1.10E+01	1.10E+01	1.10E+01
Iron	7439-89-6	2 : 2	100	4.60E+04	1.58E+05	2.70E+05
Lead	7439-92-1	1 : 2	50	2.40E+01	2.40E+01	2.40E+01
Magnesium	7439-95-4	2 : 2	100	4.90E+04	5.05E+04	5.20E+04
Manganese	7439-96-5	2 : 2	100	1.10E+03	3.60E+03	6.10E+03
Molybdenum	7439-98-7	2 : 2	100	5.60E+01	2.53E+02	4.50E+02
Nickel	7440-02-0	2 : 2	100	5.90E+00	6.30E+01	1.20E+02
Potassium	7440-09-7	2 : 2	100	3.50E+03	1.58E+04	2.80E+04
Selenium	7782-49-2	1 : 2	50	5.00E+00	5.00E+00	5.00E+00
Sodium	7440-23-5	2 : 2	100	5.90E+04	1.05E+05	1.50E+05
Vanadium	7440-62-2	2 : 2	100	3.70E+00	1.67E+02	3.30E+02
Zinc	7440-66-6	1 : 2	50	1.30E+03	1.30E+03	1.30E+03

Notes:
2,4-D - 2,4-Dichlorophenoxy acetic acid.
2,4,5-T - 2,4,5-Trichlorophenoxy acetic acid.
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-27
Site H Source Area Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs						
1,1,2,2-Tetrachloroethane	79-34-5	1 : 9	11	1.20E+01	1.20E+01	1.20E+01
1,1-Dichloroethene	75-35-4	1 : 9	11	3.70E+00	3.70E+00	3.70E+00
4-Methyl-2-pentanone (MIBK)	108-10-1	1 : 9	11	2.60E+01	2.60E+01	2.60E+01
Acetone	67-64-1	1 : 9	11	4.90E+02	4.90E+02	4.90E+02
Benzene	71-43-2	7 : 9	78	1.30E+00	5.60E+02	2.25E+03
Chlorobenzene	108-90-7	9 : 9	100	1.40E+01	7.38E+02	4.35E+03
Chloroform	67-66-3	3 : 9	33	9.70E-01	1.44E+02	4.25E+02
Cis/Trans-1,2-Dichloroethene	540-59-0	3 : 9	33	1.11E+00	6.74E+00	1.70E+01
Ethylbenzene	100-41-4	6 : 9	67	2.35E+00	3.07E+02	1.80E+03
Toluene	108-88-3	8 : 9	89	6.30E-01	2.13E+02	1.55E+03
Trichloroethene	79-01-6	3 : 9	33	1.80E+00	1.79E+01	4.95E+01
Xylenes, Total	1330-20-7	6 : 9	67	3.75E+00	4.67E+01	2.00E+02
SVOCs						
1,2,4-Trichlorobenzene	120-82-1	8 : 9	89	1.90E+01	5.98E+02	2.50E+03
1,2-Dichlorobenzene	95-50-1	9 : 9	100	2.20E+00	2.46E+02	7.20E+02
1,3-Dichlorobenzene	541-73-1	7 : 9	78	3.60E-01	5.40E+01	1.40E+02
1,4-Dichlorobenzene	106-46-7	9 : 9	100	2.00E+01	2.65E+03	1.40E+04
2,4,5-Trichlorophenol	95-95-4	6 : 9	67	4.10E+00	4.89E+01	1.90E+02
2,4,6-Trichlorophenol	88-06-2	6 : 9	67	1.50E+00	1.33E+02	4.65E+02
2,4-Dichlorophenol	120-83-2	7 : 9	78	7.50E-01	8.33E+01	3.70E+02
2-Chloronaphthalene	91-58-7	1 : 9	11	1.20E+01	1.20E+01	1.20E+01
2-Chlorophenol	95-57-8	6 : 9	67	9.80E-01	1.76E+01	7.30E+01
2-Methylnaphthalene	91-57-6	2 : 9	22	1.80E+00	4.90E+00	8.00E+00
2-Methylphenol (o-cresol)	95-48-7	2 : 9	22	2.80E+01	2.90E+01	3.00E+01
2-Nitroaniline	88-74-4	1 : 9	11	1.35E+01	1.35E+01	1.35E+01
3-Methylphenol/4-Methylphenol	106-44-5	4 : 9	44	7.60E-01	7.06E+01	2.15E+02
4,6-Dinitro-2-methylphenol	534-52-1	1 : 9	11	1.40E+01	1.40E+01	1.40E+01
4-Chloro-3-methylphenol	59-50-7	1 : 9	11	1.00E+00	1.00E+00	1.00E+00
4-Chloroaniline	106-47-8	6 : 9	67	2.40E+00	4.48E+02	1.80E+03
Acenaphthene	83-32-9	1 : 9	11	2.20E+00	2.20E+00	2.20E+00
bis(2-Ethylhexyl)phthalate	117-81-7	6 : 9	67	7.40E-01	7.17E+00	3.20E+01
Carbazole	86-74-8	4 : 9	44	1.15E+00	2.89E+00	5.20E+00
Dibenzofuran	132-64-9	2 : 9	22	3.10E-01	7.05E-01	1.10E+00
Diethylphthalate	84-66-2	2 : 9	22	2.10E+00	1.16E+01	2.10E+01
Dimethylphthalate	131-11-3	1 : 9	11	3.65E+00	3.65E+00	3.65E+00
Di-n-butylphthalate	84-74-2	4 : 9	44	2.60E-01	3.73E-01	5.20E-01
Di-n-octylphthalate	117-84-0	1 : 9	11	3.90E-01	3.90E-01	3.90E-01
Fluorene	86-73-7	7 : 9	78	5.80E-01	6.60E+00	3.00E+01
Hexachlorobenzene	118-74-1	4 : 9	44	3.70E-01	6.96E+00	2.10E+01
Isophorone	78-59-1	1 : 9	11	7.50E-01	7.50E-01	7.50E-01
Naphthalene	91-20-3	4 : 9	44	3.20E+00	6.31E+02	2.30E+03
Nitrobenzene	98-95-3	1 : 9	11	5.65E+01	5.65E+01	5.65E+01
N-Nitrosodiphenylamine	122-39-4	1 : 9	11	7.60E+00	7.60E+00	7.60E+00
Pentachlorophenol (8270)	87-86-5svoc	3 : 3	100	3.00E+00	1.66E+03	4.30E+03
Phenanthrene	85-01-8	2 : 9	22	2.90E+00	3.85E+00	4.80E+00
Phenol	108-95-2	3 : 9	33	2.70E+01	1.38E+02	3.15E+02

Table 3-27
Site H Source Area Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Pesticides						
4,4'-DDD	72-54-8	6 : 9	67	4.10E-02	2.61E-01	9.00E-01
4,4'-DDE	72-55-9	5 : 9	56	2.10E-02	7.06E-02	1.60E-01
4,4'-DDT	50-29-3	6 : 9	67	2.95E-02	1.01E+00	4.40E+00
Aldrin	309-00-2	3 : 9	33	2.60E-02	4.83E-02	6.60E-02
Alpha Chlordane	5103-71-9	3 : 9	33	1.90E-02	8.16E-01	2.40E+00
alpha-BHC	319-84-6	4 : 9	44	1.00E-02	1.43E-01	4.95E-01
delta-BHC	319-86-8	4 : 9	44	6.20E-02	1.08E-01	1.50E-01
Dieldrin	60-57-1	1 : 9	11	5.00E-03	5.00E-03	5.00E-03
Endosulfan I	959-98-8	2 : 9	22	1.70E-02	2.60E-02	3.50E-02
Endrin	72-20-8	2 : 9	22	1.30E-02	1.87E-01	3.60E-01
Endrin aldehyde	7421-93-4	1 : 9	11	7.40E-01	7.40E-01	7.40E-01
Gamma Chlordane	5103-74-2	4 : 9	44	8.00E-03	4.33E-02	1.40E-01
gamma-BHC (Lindane)	58-89-9	1 : 9	11	3.80E-02	3.80E-02	3.80E-02
Heptachlor	76-44-8	2 : 9	22	2.30E-02	3.35E-02	4.40E-02
Heptachlor epoxide	1024-57-3	4 : 9	44	7.10E-03	1.13E+00	4.40E+00
Methoxychlor	72-43-5	2 : 9	22	3.60E-01	7.80E-01	1.20E+00
Herbicides						
2,4,5-T	93-76-5	1 : 9	11	3.50E+01	3.50E+01	3.50E+01
2,4-D	94-75-7	3 : 9	33	1.80E+00	6.43E+01	1.80E+02
MCPP	7085-19-0	5 : 9	56	1.50E+02	1.97E+03	4.25E+03
Pentachlorophenol	87-86-5	8 : 9	89	1.20E+00	4.15E+02	2.40E+03
Pentachlorophenol	87-86-5	3 : 6	50	3.75E+01	2.81E+02	7.10E+02
PCBs						
Total PCBs	1366-36-3	6 : 9	67	1.90E+00	5.28E+00	1.22E+01
Dioxin						
Dioxin TEQ-HH	1746-01-6	9 : 9	100	4.12E-06	7.78E-04	4.72E-03
Metals						
Aluminum	7429-90-5	5 : 9	56	4.10E+01	9.08E+02	2.10E+03
Antimony	7440-36-0	5 : 9	56	5.90E+00	5.53E+01	1.50E+02
Arsenic	7440-38-2	9 : 9	100	2.80E+01	3.46E+02	1.25E+03
Barium	7440-39-3	9 : 9	100	6.35E+01	2.47E+02	7.30E+02
Cadmium	7440-43-9	1 : 9	11	2.20E+00	2.20E+00	2.20E+00
Calcium	7440-70-2	9 : 9	100	1.70E+05	3.22E+05	7.20E+05
Chromium	7440-47-3	4 : 9	44	3.00E+00	3.38E+01	1.10E+02
Cobalt	7440-48-4	4 : 9	44	2.70E+00	4.46E+01	1.30E+02
Copper	7440-50-8	5 : 9	56	6.30E+00	2.03E+01	4.20E+01
Cyanide, Total	57-12-5	1 : 9	11	1.80E+01	1.80E+01	1.80E+01
Iron	7439-89-6	9 : 9	100	6.40E+03	3.35E+04	8.90E+04
Lead	7439-92-1	2 : 9	22	1.90E+00	5.05E+00	8.20E+00
Magnesium	7439-95-4	9 : 9	100	3.70E+04	4.94E+04	7.90E+04
Manganese	7439-96-5	9 : 9	100	4.40E+02	1.80E+03	8.80E+03
Mercury	7439-97-6	2 : 9	22	9.00E-02	1.45E-01	2.00E-01
Molybdenum	7439-98-7	7 : 9	78	3.20E+00	2.97E+01	1.30E+02
Nickel	7440-02-0	8 : 9	89	5.40E+00	3.36E+02	7.20E+02
Potassium	7440-09-7	9 : 9	100	5.50E+03	1.25E+04	2.70E+04
Selenium	7782-49-2	1 : 9	11	7.15E+00	7.15E+00	7.15E+00

Table 3-27
Site H Source Area Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)						
Sodium	7440-23-5	9 : 9	100	1.30E+04	4.07E+04	9.80E+04
Thallium	7440-28-0	1 : 9	11	5.10E+00	5.10E+00	5.10E+00
Vanadium	7440-62-2	4 : 9	44	3.50E+00	5.72E+00	6.80E+00
Zinc	7440-66-6	3 : 9	33	6.05E+01	5.14E+02	1.00E+03

Notes:
2,4-D - 2,4-Dichlorophenoxy acetic acid.
2,4,5-T - 2,4,5-Trichlorophenoxy acetic acid.
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
MCPP - 2-(2-Methyl-4-chlorophenoxy)propionic acid.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-28a
Site I South Source Area Groundwater Data Summary (a)

Constituent	CAS No.	FOD (b)	%FOD (c)	Minimum (d) (ug/L)	Mean (d) (ug/L)	Maximum (d) (ug/L)
VOCs						
Benzene	71-43-2	4 : 7	57	3.20E+01	3.90E+02	7.50E+02
Chlorobenzene	108-90-7	4 : 7	57	1.10E+00	1.30E+03	3.80E+03
Cis/Trans-1,2-Dichloroethene	540-59-0	1 : 7	14	1.60E+02	1.60E+02	1.60E+02
Ethylbenzene	100-41-4	3 : 7	43	4.60E+00	4.52E+01	8.30E+01
Toluene	108-88-3	3 : 7	43	7.20E-01	1.59E+01	4.20E+01
Xylenes, Total	1330-20-7	2 : 7	29	1.40E+01	1.60E+01	1.80E+01
SVOCs		:				
1,2,4-Trichlorobenzene	120-82-1	2 : 7	29	5.50E-01	2.55E+02	5.10E+02
1,2-Dichlorobenzene	95-50-1	3 : 7	43	3.90E+00	1.72E+02	5.00E+02
1,3-Dichlorobenzene	541-73-1	5 : 7	71	4.20E-01	2.21E+01	5.15E+01
1,4-Dichlorobenzene	106-46-7	7 : 7	100	3.00E+00	2.06E+03	1.40E+04
2,4,5-Trichlorophenol	95-95-4	1 : 7	14	1.60E+00	1.60E+00	1.60E+00
2,4,6-Trichlorophenol	88-06-2	1 : 7	14	1.50E+01	1.50E+01	1.50E+01
2,4-Dichlorophenol	120-83-2	1 : 7	14	3.80E+00	3.80E+00	3.80E+00
2-Chlorophenol	95-57-8	2 : 7	29	1.00E+01	1.85E+01	2.70E+01
2-Methylnaphthalene	91-57-6	2 : 7	29	4.20E+00	4.90E+00	5.60E+00
2-Methylphenol (o-cresol)	95-48-7	2 : 7	29	3.90E-01	1.07E+01	2.10E+01
3-Methylphenol/4-Methylphenol	106-44-5	2 : 7	29	4.80E+00	5.74E+01	1.10E+02
4-Chloroaniline	106-47-8	2 : 7	29	1.40E+03	1.60E+03	1.80E+03
Acenaphthene	83-32-9	1 : 7	14	2.10E+00	2.10E+00	2.10E+00
Benzo(a)anthracene	56-55-3	1 : 7	14	2.30E+00	2.30E+00	2.30E+00
Benzo(a)pyrene	50-32-8	2 : 7	29	5.80E-01	1.99E+00	3.40E+00
Benzo(b)fluoranthene	205-99-2	2 : 7	29	4.20E-01	2.11E+00	3.80E+00
Benzo(g,h,i)perylene	191-24-2	1 : 7	14	3.00E+00	3.00E+00	3.00E+00
Benzo(k)fluoranthene	207-08-9	1 : 7	14	4.00E+00	4.00E+00	4.00E+00
bis(2-Ethylhexyl)phthalate	117-81-7	7 : 7	100	7.90E-01	2.01E+00	3.80E+00
Butylbenzylphthalate	85-68-7	2 : 7	29	5.30E-01	5.27E+00	1.00E+01
Carbazole	86-74-8	2 : 7	29	3.50E+00	1.48E+01	2.60E+01
Chrysene	218-01-9	1 : 7	14	3.10E+00	3.10E+00	3.10E+00
Dibenzo(a,h)anthracene	53-70-3	1 : 7	14	3.00E+00	3.00E+00	3.00E+00
Di-n-butylphthalate	84-74-2	4 : 7	57	2.90E-01	5.75E-01	1.40E+00
Di-n-octylphthalate	117-84-0	1 : 7	14	2.40E+00	2.40E+00	2.40E+00
Fluoranthene	206-44-0	1 : 7	14	4.10E-01	4.10E-01	4.10E-01
Indeno(1,2,3-cd)pyrene	193-39-5	1 : 7	14	9.20E-01	9.20E-01	9.20E-01
Naphthalene	91-20-3	4 : 7	57	1.90E+00	3.61E+02	1.40E+03
N-Nitrosodiphenylamine	122-39-4	1 : 7	14	2.30E+01	2.30E+01	2.30E+01
Pentachlorophenol (8270)	87-86-5svoc	1 : 2	50	5.00E+02	5.00E+02	5.00E+02
Phenol	108-95-2	3 : 7	43	2.10E+00	1.27E+01	1.90E+01
Pesticides						
4,4'-DDE	72-55-9	2 : 7	29	1.80E-01	1.19E+00	2.20E+00
alpha-BHC	319-84-6	2 : 7	29	1.10E+00	1.75E+00	2.40E+00
beta-BHC	319-85-7	1 : 7	14	1.00E+00	1.00E+00	1.00E+00
Endosulfan II	33213-65-9	1 7	14	2.00E+00	2.00E+00	2.00E+00
Endrin ketone	53494-70-5	2 : 7	29	1.10E-01	9.55E-01	1.80E+00
Gamma Chlordane	5103-74-2	2 : 7	29	2.50E-01	1.88E+00	3.50E+00
Pesticides (cont.)						
gamma-BHC (Lindane)	58-89-9	1 : 7	14	4.00E-01	4.00E-01	4.00E-01
Heptachlor	76-44-8	1 : 7	14	2.50E+00	2.50E+00	2.50E+00
Heptachlor epoxide	1024-57-3	2 : 7	29	6.80E-01	3.14E+00	5.60E+00
Methoxychlor	72-43-5	2 : 7	29	2.20E-01	1.51E+00	2.80E+00

Table 3-28a
Site I South Source Area Groundwater Data Summary (a)

Constituent	CAS No.	FOD (b)	%FOD (c)	Minimum (d) (ug/L)	Mean (d) (ug/L)	Maximum (d) (ug/L)
Herbicides						
2,4,5-TP (Silvex)	93-72-1	2 : 7	29	1.90E-01	3.20E-01	4.50E-01
Pentachlorophenol	87-86-5	2 : 7	29	6.70E-02	8.00E+01	1.60E+02
PCBs						
Total PCBs	1366-36-3	1 : 7	14	8.80E-01	8.80E-01	8.80E-01
Dioxin						
Dioxin TEQ-HH	1746-01-6	7 : 7	100	4.96E-06	5.83E-04	3.18E-03
Metals						
Aluminum	7429-90-5	6 : 7	86	1.10E+02	1.95E+03	4.90E+03
Arsenic	7440-38-2	2 : 7	29	9.70E+00	1.29E+01	1.60E+01
Barium	7440-39-3	7 : 7	100	5.40E+02	8.49E+02	1.20E+03
Cadmium	7440-43-9	1 : 7	14	9.60E-01	9.60E-01	9.60E-01
Calcium	7440-70-2	7 : 7	100	1.30E+05	1.99E+05	4.80E+05
Chromium	7440-47-3	4 : 7	57	7.30E+00	2.12E+01	4.15E+01
Cobalt	7440-48-4	4 : 7	57	1.90E+00	2.94E+00	4.00E+00
Copper	7440-50-8	3 : 7	43	1.00E+01	1.37E+01	1.90E+01
Iron	7439-89-6	7 : 7	100	1.40E+04	3.31E+04	6.40E+04
Lead	7439-92-1	4 : 7	57	1.60E+00	8.05E+00	2.20E+01
Magnesium	7439-95-4	7 : 7	100	2.90E+04	5.10E+04	1.10E+05
Manganese	7439-96-5	7 : 7	100	3.40E+02	1.62E+03	6.80E+03
Mercury	7439-97-6	2 : 7	29	1.30E-01	1.55E-01	1.80E-01
Molybdenum	7439-98-7	4 : 7	57	3.80E+00	8.83E+00	1.50E+01
Nickel	7440-02-0	2 : 7	29	9.50E+00	7.98E+01	1.50E+02
Potassium	7440-09-7	7 : 7	100	7.30E+03	1.13E+04	2.60E+04
Sodium	7440-23-5	7 : 7	100	2.00E+04	7.06E+04	2.40E+05
Vanadium	7440-62-2	4 : 7	57	4.70E+00	1.06E+01	2.20E+01
Zinc	7440-66-6	5 : 7	71	9.30E+01	2.18E+02	4.35E+02

Notes:
2,4,5-T - 2,4,5-Trichlorophenoxy acetic acid.
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Alluvial Aquifer Groundwater Wells.
(b) Number of samples detected: Total number of samples.
(c) Percent detected.
(d) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-28b
Site I North Source Area Groundwater Data Summary (a)

Constituent	CAS No.	FOD (b)	%FOD (c)	Minimum (d) (ug/L)	Mean (d) (ug/L)	Maximum (d) (ug/L)
Pesticides						
delta-BHC	319-86-8	1 : 1	100	2.10E-02	2.10E-02	2.10E-02
Herbicides						
Pentachlorophenol	87-86-5	1 : 1	100	6.60E-02	6.60E-02	6.60E-02
Dioxin						
Dioxin TEQ-HH	1746-01-6	1 : 1	100	4.88E-05	4.88E-05	4.88E-05
Metals						
Aluminum	7429-90-5	1 : 1	100	1.50E+03	1.50E+03	1.50E+03
Barium	7440-39-3	1 : 1	100	1.70E+02	1.70E+02	1.70E+02
Calcium	7440-70-2	1 : 1	100	1.50E+05	1.50E+05	1.50E+05
Chromium	7440-47-3	1 : 1	100	2.50E+00	2.50E+00	2.50E+00
Cobalt	7440-48-4	1 : 1	100	4.10E+00	4.10E+00	4.10E+00
Copper	7440-50-8	1 : 1	100	3.80E+00	3.80E+00	3.80E+00
Iron	7439-89-6	1 : 1	100	2.10E+03	2.10E+03	2.10E+03
Magnesium	7439-95-4	1 : 1	100	3.10E+04	3.10E+04	3.10E+04
Manganese	7439-96-5	1 : 1	100	3.20E+02	3.20E+02	3.20E+02
Nickel	7440-02-0	1 : 1	100	1.10E+01	1.10E+01	1.10E+01
Potassium	7440-09-7	1 : 1	100	7.60E+03	7.60E+03	7.60E+03
Sodium	7440-23-5	1 : 1	100	3.70E+04	3.70E+04	3.70E+04
Vanadium	7440-62-2	1 : 1	100	5.00E+00	5.00E+00	5.00E+00
Zinc	7440-66-6	1 : 1	100	1.00E+01	1.00E+01	1.00E+01

Notes:
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.

(a) Alluvial Aquifer Groundwater Wells.
(b) Number of samples detected: Total number of samples.
(c) Percent detected.
(d) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-29
Site I South Downgradient Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs						
1,1-Dichloroethane	75-34-3	11 : 29	38	3.20E+00	1.54E+02	9.60E+02
1,1-Dichloroethene	75-35-4	6 : 29	21	2.10E+00	7.52E+01	3.30E+02
Benzene	71-43-2	25 : 29	86	2.50E+00	1.26E+02	6.20E+02
Chlorobenzene	108-90-7	28 : 29	97	6.80E-01	7.00E+03	3.40E+04
Cis/Trans-1,2-Dichloroethene	540-59-0	11 : 29	38	1.00E+00	3.86E+02	1.40E+03
Ethylbenzene	100-41-4	12 : 29	41	8.60E+00	1.96E+02	8.70E+02
Tetrachloroethene	127-18-4	7 : 29	24	9.55E-01	4.21E+01	8.30E+01
Toluene	108-88-3	7 : 29	24	5.20E-01	1.93E+01	8.60E+01
Trichloroethene	79-01-6	5 : 29	17	6.55E-01	6.00E+01	1.80E+02
Vinyl chloride	75-01-4	11 : 29	38	1.20E+00	1.92E+02	9.70E+02
Xylenes, Total	1330-20-7	3 : 29	10	1.00E+01	1.57E+01	2.30E+01
SVOCs						
1,2,4-Trichlorobenzene	120-82-1	4 : 29	14	2.60E+00	8.79E+02	2.50E+03
1,2-Dichlorobenzene	95-50-1	24 : 29	83	1.10E+00	9.04E+01	4.45E+02
1,3-Dichlorobenzene	541-73-1	23 : 29	79	1.10E+01	1.12E+02	2.90E+02
1,4-Dichlorobenzene	106-46-7	26 : 29	90	2.00E+01	3.49E+03	1.00E+04
2,4,5-Trichlorophenol	95-95-4	1 : 29	3	1.80E+00	1.80E+00	1.80E+00
2,4-Dichlorophenol	120-83-2	14 : 29	48	1.60E+00	1.95E+01	4.70E+01
2-Chlorophenol	95-57-8	21 : 29	72	3.00E+00	2.25E+01	8.40E+01
2-Methylnaphthalene	91-57-6	1 : 29	3	1.30E+00	1.30E+00	1.30E+00
2-Methylphenol (o-cresol)	95-48-7	1 : 29	3	3.00E+00	3.00E+00	3.00E+00
3-Methylphenol/4-Methylphenol	106-44-5	1 : 29	3	1.70E+00	1.70E+00	1.70E+00
4-Chloro-3-methylphenol	59-50-7	1 : 29	3	1.50E+00	1.50E+00	1.50E+00
4-Chloroaniline	106-47-8	25 : 29	86	3.00E+00	5.06E+02	4.10E+03
Acenaphthene	83-32-9	1 : 29	3	3.30E-01	3.30E-01	3.30E-01
Benzo(a)anthracene	56-55-3	3 : 29	10	3.60E-01	7.50E-01	1.30E+00
Benzo(a)pyrene	50-32-8	5 : 29	17	4.50E-01	1.01E+00	2.00E+00
Benzo(b)fluoranthene	205-99-2	2 : 29	7	3.00E-01	1.00E+00	1.70E+00
Benzo(g,h,i)perylene	191-24-2	3 : 29	10	9.40E-01	1.81E+00	2.50E+00
Benzo(k)fluoranthene	207-08-9	3 : 29	10	7.40E-01	1.38E+00	2.20E+00
bis(2-Chloroethyl)ether	111-44-4	2 : 29	7	1.10E+00	5.40E+00	9.70E+00
bis(2-Ethylhexyl)phthalate	117-81-7	3 : 29	10	5.10E-01	1.13E+00	2.19E+00
Carbazole	86-74-8	5 : 29	17	1.40E+00	8.88E+00	1.30E+01
Chrysene	218-01-9	2 : 29	7	7.30E-01	1.12E+00	1.50E+00
Dibenzo(a,h)anthracene	53-70-3	5 : 29	17	8.50E-01	1.37E+00	1.70E+00
Dibenzofuran	132-64-9	1 : 29	3	1.90E+01	1.90E+01	1.90E+01
Diethylphthalate	84-66-2	2 : 29	7	1.50E+00	3.30E+00	5.10E+00
Di-n-butylphthalate	84-74-2	2 : 29	7	3.40E-01	4.25E-01	5.10E-01
Di-n-octylphthalate	117-84-0	1 : 29	3	5.00E-01	5.00E-01	5.00E-01
Dinoseb	88-85-7	1 : 29	3	2.70E-01	2.70E-01	2.70E-01
Fluoranthene	206-44-0	1 : 29	3	2.20E+01	2.20E+01	2.20E+01
Fluorene	86-73-7	2 : 29	7	5.80E-01	2.99E+00	5.40E+00
Hexachlorobenzene	118-74-1	1 : 29	3	1.00E+00	1.00E+00	1.00E+00
Indeno(1,2,3-cd)pyrene	193-39-5	2 : 29	7	6.60E-01	7.60E-01	8.60E-01
Naphthalene	91-20-3	20 : 29	69	5.70E-01	1.41E+01	6.60E+01
N-Nitrosodiphenylamine	122-39-4	10 : 29	34	4.70E-01	1.13E+01	2.80E+01

Table 3-29
Site I South Downgradient Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
SVOCs (cont.)						
Phenanthrene	85-01-8	4 : 29	14	4.70E-01	2.28E+01	8.90E+01
Phenol	108-95-2	3 : 29	10	2.00E+00	4.13E+00	6.00E+00
Pesticides						
4,4'-DDD	72-54-8	5 : 29	17	3.60E-03	2.47E-02	4.20E-02
4,4'-DDE	72-55-9	1 : 29	3	2.40E-03	2.40E-03	2.40E-03
4,4'-DDT	50-29-3	4 : 29	14	2.20E-03	4.93E-02	1.10E-01
Aldrin	309-00-2	3 : 29	10	2.00E-03	3.40E-03	5.50E-03
Alpha Chlordane	5103-71-9	1 : 29	3	1.10E-02	1.10E-02	1.10E-02
alpha-BHC	319-84-6	12 : 29	41	6.10E-03	1.16E+01	7.20E+01
beta-BHC	319-85-7	8 : 29	28	2.40E-02	8.02E+00	4.60E+01
delta-BHC	319-86-8	16 : 29	55	3.30E-03	3.60E-01	3.80E+00
Dieldrin	60-57-1	3 : 29	10	3.90E-03	6.43E-03	7.70E-03
Endosulfan II	33213-65-9	3 : 29	10	1.00E-03	2.07E-02	3.90E-02
Endrin	72-20-8	1 : 29	3	2.70E-03	2.70E-03	2.70E-03
Endrin ketone	53494-70-5	2 : 29	7	3.70E-03	4.05E-03	4.40E-03
Gamma Chlordane	5103-74-2	1 : 29	3	6.80E-03	6.80E-03	6.80E-03
gamma-BHC (Lindane)	58-89-9	8 : 29	28	1.90E-03	5.41E-02	3.10E-01
Heptachlor	76-44-8	12 : 29	41	3.80E-03	2.04E-02	9.60E-02
Heptachlor epoxide	1024-57-3	8 : 29	28	2.70E-03	1.31E-02	3.70E-02
Herbicides						
2,4,5-T	93-76-5	2 : 29	7	3.70E+00	4.75E+00	5.80E+00
2,4,5-TP (Silvex)	93-72-1	4 : 29	14	8.40E-02	4.29E-01	1.10E+00
2,4-D	94-75-7	7 : 29	24	1.40E-01	2.58E+00	1.05E+01
Dicamba	1918-00-9	1 : 29	3	1.40E-01	1.40E-01	1.40E-01
MCPP	7085-19-0	4 : 29	14	6.20E+01	2.77E+02	4.95E+02
Pentachlorophenol	87-86-5	3 : 29	10	1.30E-01	2.42E-01	3.55E-01
PCBs						
Total PCBs	1366-36-3	11 : 29	38	3.40E-01	5.52E-01	7.70E-01
Dioxin						
Dioxin TEQ-HH	1746-01-6	7 : 10	70	1.68E-06	3.44E-06	6.42E-06
Metals						
Aluminum	7429-90-5	19 : 29	66	9.20E+01	3.79E+03	1.30E+04
Antimony	7440-36-0	1 : 29	3	5.70E+01	5.70E+01	5.70E+01
Arsenic	7440-38-2	18 : 29	62	4.60E+00	2.55E+01	1.40E+02
Barium	7440-39-3	29 : 29	100	4.70E+01	4.44E+02	1.20E+03
Beryllium	7440-41-7	2 : 29	7	5.70E-01	1.14E+00	1.70E+00
Cadmium	7440-43-9	5 : 29	17	7.20E-01	1.67E+01	7.00E+01
Calcium	7440-70-2	29 : 29	100	1.50E+05	2.24E+05	5.20E+05
Chromium	7440-47-3	15 : 29	52	1.70E+00	5.63E+01	2.00E+02
Cobalt	7440-48-4	15 : 29	52	2.30E+00	1.56E+01	4.70E+01
Copper	7440-50-8	9 : 29	31	8.45E+00	4.13E+02	3.25E+03
Cyanide, Total	57-12-5	3 : 29	10	1.00E+01	2.27E+01	4.80E+01
Iron	7439-89-6	27 : 29	93	1.80E+04	4.26E+04	1.90E+05
Lead	7439-92-1	9 : 29	31	2.80E+00	4.53E+02	3.85E+03
Magnesium	7439-95-4	29 : 29	100	3.30E+04	5.99E+04	2.10E+05
Manganese	7439-96-5	29 : 29	100	4.00E+02	1.98E+03	7.70E+03

Table 3-29
Site I South Downgradient Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)						
Mercury	7439-97-6	2 : 29	7	1.20E-01	3.25E-01	5.30E-01
Molybdenum	7439-98-7	21 : 29	72	2.70E+00	9.74E+00	3.60E+01
Nickel	7440-02-0	21 : 29	72	4.90E+00	1.91E+03	2.70E+04
Potassium	7440-09-7	29 : 29	100	6.15E+03	1.69E+04	1.70E+05
Silver	7440-22-4	1 : 29	3	1.95E+01	1.95E+01	1.95E+01
Sodium	7440-23-5	29 : 29	100	2.10E+04	8.06E+04	6.00E+05
Vanadium	7440-62-2	16 : 29	55	2.50E+00	1.39E+01	5.00E+01
Zinc	7440-66-6	12 : 29	41	2.71E+01	4.04E+03	3.30E+04

Notes:
2,4-D - 2,4-Dichlorophenoxy acetic acid.
2,4,5-T - 2,4,5-Trichlorophenoxy acetic acid.
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dicamba - 2-Methoxy-3,6-dichlorobenzoic acid.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
MCPP - 2-(2-Methyl-4-chlorophenoxy)propionic acid.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-30
Site G, H and L Downgradient Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs						
Acetone	67-64-1	1 : 30	3	1.00E+01	1.00E+01	1.00E+01
Benzene	71-43-2	2 : 30	7	4.90E-01	1.35E+00	2.20E+00
Chlorobenzene	108-90-7	21 : 30	70	8.90E-01	3.14E+01	2.70E+02
Cis/Trans-1,2-Dichloroethene	540-59-0	11 : 30	37	5.50E-01	5.41E+00	2.00E+01
Ethylbenzene	100-41-4	1 : 30	3	2.25E+00	2.25E+00	2.25E+00
Tetrachloroethene	127-18-4	5 : 30	17	1.20E+00	6.43E+00	1.30E+01
Toluene	108-88-3	5 : 30	17	5.40E-01	6.97E-01	9.70E-01
Trichloroethene	79-01-6	6 : 30	20	5.00E-01	1.51E+00	2.50E+00
Vinyl chloride	75-01-4	1 : 30	3	7.30E+00	7.30E+00	7.30E+00
SVOCs						
1,2,4-Trichlorobenzene	120-82-1	1 : 30	3	1.30E+00	1.30E+00	1.30E+00
1,2-Dichlorobenzene	95-50-1	11 : 30	37	7.80E-01	5.08E+00	2.10E+01
1,3-Dichlorobenzene	541-73-1	2 : 30	7	1.09E+00	1.24E+00	1.40E+00
1,4-Dichlorobenzene	106-46-7	10 : 30	33	9.20E-01	4.17E+00	9.50E+00
2-Chlorophenol	95-57-8	5 : 30	17	4.40E-01	1.64E+00	5.60E+00
4-Chloroaniline	106-47-8	2 : 30	7	1.00E+00	7.50E+00	1.40E+01
Anthracene	120-12-7	1 : 30	3	3.90E-01	3.90E-01	3.90E-01
Benzo(a)anthracene	56-55-3	1 : 30	3	1.90E+00	1.90E+00	1.90E+00
Benzo(a)pyrene	50-32-8	2 : 30	7	5.00E-01	3.10E+00	5.70E+00
Benzo(b)fluoranthene	205-99-2	2 : 30	7	5.20E-01	2.11E+00	3.70E+00
Benzo(g,h,i)perylene	191-24-2	3 : 30	10	9.00E-01	3.00E+00	5.90E+00
Benzo(k)fluoranthene	207-08-9	1 : 30	3	5.90E+00	5.90E+00	5.90E+00
bis(2-Ethylhexyl)phthalate	117-81-7	3 : 30	10	8.00E-01	1.71E+00	2.73E+00
Chrysene	218-01-9	1 : 30	3	2.40E+00	2.40E+00	2.40E+00
Dibenzo(a,h)anthracene	53-70-3	1 : 30	3	4.80E+00	4.80E+00	4.80E+00
Di-n-butylphthalate	84-74-2	6 : 30	20	2.60E-01	4.27E-01	6.50E-01
Fluoranthene	206-44-0	1 : 30	3	5.20E-01	5.20E-01	5.20E-01
Indeno(1,2,3-cd)pyrene	193-39-5	2 : 30	7	1.80E+00	3.70E+00	5.60E+00
Phenanthrene	85-01-8	1 : 30	3	6.90E-01	6.90E-01	6.90E-01
Pesticides						
delta-BHC	319-86-8	11 : 30	37	2.40E-03	1.08E-02	3.20E-02
Dieldrin	60-57-1	1 : 30	3	1.15E-02	1.15E-02	1.15E-02
Endrin aldehyde	7421-93-4	1 : 30	3	6.00E-03	6.00E-03	6.00E-03
gamma-BHC (Lindane)	58-89-9	14 : 30	47	1.10E-03	1.16E-02	3.40E-02
Heptachlor	76-44-8	7 : 30	23	3.00E-03	1.24E-02	3.70E-02
Heptachlor epoxide	1024-57-3	1 : 30	3	4.30E-02	4.30E-02	4.30E-02
Herbicides						
2,4,5-TP (Silvex)	93-72-1	2 : 30	7	4.80E-02	3.84E-01	7.20E-01
Pentachlorophenol	87-86-5	6 : 30	20	4.00E-02	1.13E-01	2.95E-01
PCBs						
Total PCBs	1366-36-3	6 : 30	20	3.40E-01	4.10E-01	5.80E-01
Dioxin						
Dioxin TEQ-HH	1746-01-6	4 : 9	44	4.01E-07	5.79E-07	7.94E-07
Metals						
Aluminum	7429-90-5	22 : 30	73	2.80E+01	5.05E+03	3.30E+04
Antimony	7440-36-0	2 : 30	7	5.30E+00	6.60E+00	7.90E+00

Table 3-30
Site G, H and L Downgradient Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)						
Arsenic	7440-38-2	10 : 30	33	3.70E+00	1.03E+01	3.40E+01
Barium	7440-39-3	30 : 30	100	8.70E+01	3.26E+02	9.80E+02
Beryllium	7440-41-7	3 : 30	10	1.10E+00	1.50E+00	1.80E+00
Cadmium	7440-43-9	1 : 30	3	1.60E+00	1.60E+00	1.60E+00
Calcium	7440-70-2	30 : 30	100	1.10E+05	1.64E+05	2.10E+05
Chromium	7440-47-3	18 : 30	60	1.20E+00	7.94E+01	5.70E+02
Cobalt	7440-48-4	18 : 30	60	1.80E+00	9.15E+00	3.40E+01
Copper	7440-50-8	6 : 30	20	2.30E+00	5.04E+01	1.00E+02
Iron	7439-89-6	30 : 30	100	2.00E+02	2.35E+04	1.10E+05
Lead	7439-92-1	11 : 30	37	1.80E+00	1.42E+01	4.50E+01
Magnesium	7439-95-4	30 : 30	100	2.20E+04	4.28E+04	8.60E+04
Manganese	7439-96-5	30 : 30	100	4.10E+01	1.38E+03	2.90E+03
Molybdenum	7439-98-7	21 : 30	70	2.60E+00	1.26E+01	7.10E+01
Nickel	7440-02-0	22 : 30	73	5.20E+00	2.77E+01	1.50E+02
Potassium	7440-09-7	30 : 30	100	3.00E+03	8.21E+03	1.40E+04
Sodium	7440-23-5	30 : 30	100	7.30E+03	2.66E+04	1.00E+05
Vanadium	7440-62-2	11 : 30	37	3.80E+00	2.63E+01	9.10E+01
Zinc	7440-66-6	9 : 30	30	7.90E+00	1.31E+02	4.70E+02

Notes:
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-31
Creek Segment B Downgradient Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs						
1,1-Dichloroethene	75-35-4	2 : 33	6	5.70E-01	6.85E-01	8.00E-01
Acetone	67-64-1	1 : 33	3	2.80E+01	2.80E+01	2.80E+01
Benzene	71-43-2	3 : 33	9	6.00E-01	2.30E+00	3.30E+00
Chlorobenzene	108-90-7	11 : 33	33	9.30E-01	1.01E+01	3.40E+01
Cis/Trans-1,2-Dichloroethene	540-59-0	6 : 33	18	4.40E-01	7.97E-01	1.40E+00
Toluene	108-88-3	4 : 33	12	5.40E-01	7.87E-01	9.90E-01
Trichloroethene	79-01-6	5 : 33	15	3.20E-01	4.76E-01	7.50E-01
Xylenes, Total	1330-20-7	1 : 33	3	3.70E+00	3.70E+00	3.70E+00
SVOCs						
1,2-Dichlorobenzene	95-50-1	9 : 33	27	5.30E-01	2.98E+00	5.80E+00
1,4-Dichlorobenzene	106-46-7	9 : 33	27	9.50E-01	6.26E+00	1.10E+01
2-Chlorophenol	95-57-8	1 : 33	3	2.50E-01	2.50E-01	2.50E-01
4-Chloroaniline	106-47-8	2 : 33	6	1.20E+00	3.25E+00	5.30E+00
Diethylphthalate	84-66-2	2 : 33	6	4.80E-01	4.85E-01	4.90E-01
Di-n-butylphthalate	84-74-2	3 : 33	9	2.70E-01	3.40E-01	4.30E-01
Phenanthrene	85-01-8	1 : 33	3	4.20E-01	4.20E-01	4.20E-01
Pesticides						
4,4'-DDE	72-55-9	1 : 33	3	3.90E-03	3.90E-03	3.90E-03
alpha-BHC	319-84-6	4 : 33	12	8.00E-04	3.15E-03	4.80E-03
delta-BHC	319-86-8	12 : 33	36	1.90E-03	4.70E-03	1.20E-02
Dieldrin	60-57-1	1 : 33	3	2.60E-03	2.60E-03	2.60E-03
Endosulfan II	33213-65-9	1 : 33	3	6.90E-03	6.90E-03	6.90E-03
Endrin aldehyde	7421-93-4	1 : 33	3	1.10E-02	1.10E-02	1.10E-02
Endrin ketone	53494-70-5	1 : 33	3	9.30E-03	9.30E-03	9.30E-03
Gamma Chlordane	5103-74-2	1 : 33	3	7.50E-04	7.50E-04	7.50E-04
gamma-BHC (Lindane)	58-89-9	3 : 33	9	8.50E-04	3.88E-03	7.40E-03
Heptachlor	76-44-8	4 : 33	12	1.10E-03	3.38E-03	5.30E-03
Herbicides						
2,4,5-TP (Silvex)	93-72-1	2 : 33	6	5.10E-02	1.31E-01	2.10E-01
2,4-D	94-75-7	2 : 33	6	1.80E-01	2.40E-01	3.00E-01
2,4-DB	94-82-6	1 : 33	3	4.10E-01	4.10E-01	4.10E-01
Dicamba	1918-00-9	1 : 33	3	1.20E-01	1.20E-01	1.20E-01
Pentachlorophenol	87-86-5	5 : 33	15	4.40E-02	4.75E-01	1.40E+00
PCBs						
Total PCBs	1366-36-3	7 : 33	21	6.80E-01	7.40E-01	7.80E-01
Dioxin						
Dioxin TEQ-HH	1746-01-6	12 : 12	100	2.41E-06	6.41E-06	2.43E-05
Metals						
Aluminum	7429-90-5	27 : 33	82	3.10E+01	7.32E+03	3.20E+04
Arsenic	7440-38-2	18 : 33	55	4.10E+00	1.37E+01	3.30E+01
Barium	7440-39-3	33 : 33	100	1.30E+02	4.69E+02	1.10E+03
Beryllium	7440-41-7	4 : 33	12	1.00E+00	1.20E+00	1.60E+00
Calcium	7440-70-2	33 : 33	100	8.60E+04	1.41E+05	2.00E+05
Chromium	7440-47-3	13 : 33	39	1.90E+01	1.51E+02	4.10E+02
Cobalt	7440-48-4	22 : 33	67	1.60E+00	1.14E+01	4.10E+01
Copper	7440-50-8	24 : 33	73	1.00E+00	1.80E+01	7.30E+01

Table 3-31
Creek Segment B Downgradient Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)						
Iron	7439-89-6	33 : 33	100	1.00E+02	2.79E+04	1.10E+05
Lead	7439-92-1	13 : 33	39	2.60E+00	1.70E+01	4.20E+01
Magnesium	7439-95-4	33 : 33	100	1.50E+04	3.50E+04	5.20E+04
Manganese	7439-96-5	33 : 33	100	1.30E+02	1.14E+03	3.70E+03
Molybdenum	7439-98-7	20 : 33	61	3.10E+00	1.99E+01	6.90E+01
Nickel	7440-02-0	29 : 33	88	4.90E+00	3.49E+01	1.60E+02
Potassium	7440-09-7	33 : 33	100	3.50E+03	7.35E+03	1.40E+04
Sodium	7440-23-5	33 : 33	100	4.80E+03	1.34E+04	2.70E+04
Vanadium	7440-62-2	19 : 33	58	2.20E+00	2.59E+01	8.80E+01
Zinc	7440-66-6	14 : 33	42	1.10E+01	2.05E+02	5.10E+02

Notes:
2,4-D - 2,4-Dichlorophenoxy acetic acid.
2,4-DB - 4-(2,4-Dichlorophenoxy) butyric acid.
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dicamba - 2-Methoxy-3,6-dichlorobenzoic acid.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-32
Non-Potable Domestic Well Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs						
Carbon disulfide	75-15-0	2 : 4	50	1.50E+00	6.75E+00	1.20E+01
Toluene	108-88-3	1 : 4	25	6.35E-01	6.35E-01	6.35E-01
SVOCs						
Fluoranthene	206-44-0	2 : 4	50	3.60E-01	3.73E-01	3.85E-01
Phenanthrene	85-01-8	1 : 4	25	3.80E-01	3.80E-01	3.80E-01
Pesticides						
delta-BHC	319-86-8	2 : 4	50	2.85E-03	3.43E-03	4.00E-03
Dioxin						
Dioxin TEQ-HH	1746-01-6	3 : 4	75	3.43E-06	4.41E-06	5.97E-06
Metals						
Arsenic	7440-38-2	2 : 4	50	6.40E+00	1.77E+01	2.90E+01
Barium	7440-39-3	4 : 4	100	1.30E+02	1.99E+02	2.65E+02
Cadmium	7440-43-9	1 : 4	25	1.00E+00	1.00E+00	1.00E+00
Calcium	7440-70-2	4 : 4	100	1.00E+05	1.50E+05	1.80E+05
Cobalt	7440-48-4	2 : 4	50	3.00E+00	3.55E+00	4.10E+00
Copper	7440-50-8	4 : 4	100	1.10E+00	6.25E+00	1.85E+01
Iron	7439-89-6	4 : 4	100	1.90E+03	7.85E+03	1.70E+04
Lead	7439-92-1	3 : 4	75	2.70E+00	4.87E+01	1.29E+02
Magnesium	7439-95-4	4 : 4	100	2.20E+04	3.50E+04	4.10E+04
Manganese	7439-96-5	4 : 4	100	5.75E+02	9.34E+02	1.20E+03
Nickel	7440-02-0	2 : 4	50	6.20E+00	2.96E+01	5.30E+01
Potassium	7440-09-7	4 : 4	100	4.05E+03	5.56E+03	6.80E+03
Sodium	7440-23-5	4 : 4	100	9.55E+03	2.11E+04	2.90E+04
Vanadium	7440-62-2	1 : 4	25	2.50E+00	2.50E+00	2.50E+00
Zinc	7440-66-6	4 : 4	100	7.50E+01	1.30E+03	4.05E+03

Notes:
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-33
Walnut Street Shallow Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Pesticides						
4,4'-DDD	72-54-8	1 : 3	33	4.00E-03	4.00E-03	4.00E-03
Alpha Chlordane	5103-71-9	1 : 3	33	1.40E-03	1.40E-03	1.40E-03
alpha-BHC	319-84-6	2 : 3	67	2.10E-03	2.65E-03	3.20E-03
beta-BHC	319-85-7	1 : 3	33	6.40E-03	6.40E-03	6.40E-03
Dieldrin	60-57-1	2 : 3	67	1.30E-03	2.25E-03	3.20E-03
Endosulfan I	959-98-8	1 : 3	33	1.10E-03	1.10E-03	1.10E-03
Endrin aldehyde	7421-93-4	1 : 3	33	3.20E-03	3.20E-03	3.20E-03
Gamma Chlordane	5103-74-2	1 : 3	33	2.20E-03	2.20E-03	2.20E-03
gamma-BHC (Lindane)	58-89-9	3 : 3	100	3.40E-03	9.42E-03	2.08E-02
Heptachlor	76-44-8	1 : 3	33	1.90E-03	1.90E-03	1.90E-03
Heptachlor epoxide	1024-57-3	2 : 3	67	1.00E-03	1.20E-03	1.40E-03
Methoxychlor	72-43-5	1 : 3	33	5.40E-03	5.40E-03	5.40E-03
Herbicides						
2,4,5-TP (Silvex)	93-72-1	1 : 3	33	8.60E-02	8.60E-02	8.60E-02
PCBs						
Total PCBs	1366-36-3	1 : 3	33	5.60E-02	5.60E-02	5.60E-02
Dioxin						
Dioxin TEQ-HH	1746-01-6	3 : 3	100	3.39E-06	2.84E-05	7.72E-05
Metals						
Aluminum	7429-90-5	3 : 3	100	7.00E+02	5.62E+03	1.22E+04
Arsenic	7440-38-2	3 : 3	100	1.30E+01	2.48E+01	4.40E+01
Barium	7440-39-3	3 : 3	100	2.50E+02	4.13E+02	5.40E+02
Beryllium	7440-41-7	1 : 3	33	1.10E+00	1.10E+00	1.10E+00
Calcium	7440-70-2	3 : 3	100	8.00E+04	1.08E+05	1.30E+05
Chromium	7440-47-3	3 : 3	100	4.40E+00	2.61E+01	5.60E+01
Cobalt	7440-48-4	3 : 3	100	4.20E+00	1.03E+01	1.46E+01
Copper	7440-50-8	3 : 3	100	2.10E+00	1.87E+01	4.30E+01
Iron	7439-89-6	3 : 3	100	7.60E+03	1.65E+04	3.00E+04
Lead	7439-92-1	3 : 3	100	3.40E+00	1.46E+01	2.55E+01
Magnesium	7439-95-4	3 : 3	100	8.80E+03	1.59E+04	2.50E+04
Manganese	7439-96-5	3 : 3	100	8.50E+02	1.25E+03	1.70E+03
Mercury	7439-97-6	1 : 3	33	3.80E-01	3.80E-01	3.80E-01
Molybdenum	7439-98-7	3 : 3	100	2.90E+00	7.27E+00	9.70E+00
Nickel	7440-02-0	3 : 3	100	1.00E+01	2.67E+01	4.30E+01
Potassium	7440-09-7	3 : 3	100	6.40E+03	1.00E+04	1.60E+04
Sodium	7440-23-5	3 : 3	100	1.30E+04	1.57E+04	1.90E+04
Vanadium	7440-62-2	3 : 3	100	3.80E+00	1.93E+01	4.00E+01
Zinc	7440-66-6	3 : 3	100	1.20E+01	5.95E+01	1.16E+02

Notes:
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
PCB - Polychlorinated Biphenyl.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and

Table 3-33
Walnut Street Shallow Groundwater Data Summary

the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-34
Walnut Street Time-Series Sampling Groundwater Data (0 Hour)

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Dioxin						
Dioxin TEQ-HH	1746-01-6	1 : 1	100	3.93E-07	3.93E-07	3.93E-07
Metals						
Aluminum	7429-90-5	1 : 1	100	4.30E+03	4.30E+03	4.30E+03
Arsenic	7440-38-2	1 : 1	100	1.10E+01	1.10E+01	1.10E+01
Barium	7440-39-3	1 : 1	100	4.30E+02	4.30E+02	4.30E+02
Calcium	7440-70-2	1 : 1	100	1.80E+05	1.80E+05	1.80E+05
Chromium	7440-47-3	1 : 1	100	9.70E+00	9.70E+00	9.70E+00
Cobalt	7440-48-4	1 : 1	100	1.40E+01	1.40E+01	1.40E+01
Iron	7439-89-6	1 : 1	100	1.40E+04	1.40E+04	1.40E+04
Lead	7439-92-1	1 : 1	100	1.40E+01	1.40E+01	1.40E+01
Magnesium	7439-95-4	1 : 1	100	3.90E+04	3.90E+04	3.90E+04
Manganese	7439-96-5	1 : 1	100	1.70E+03	1.70E+03	1.70E+03
Mercury	7439-97-6	1 : 1	100	9.00E-02	9.00E-02	9.00E-02
Nickel	7440-02-0	1 : 1	100	3.40E+01	3.40E+01	3.40E+01
Potassium	7440-09-7	1 : 1	100	6.20E+03	6.20E+03	6.20E+03
Sodium	7440-23-5	1 : 1	100	1.70E+04	1.70E+04	1.70E+04
Vanadium	7440-62-2	1 : 1	100	1.20E+01	1.20E+01	1.20E+01
Zinc	7440-66-6	1 : 1	100	4.90E+01	4.90E+01	4.90E+01

Notes:
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-35
Walnut Street Time-Series Sampling Groundwater Data (12 Hour)

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
SVOCs						
1,4-Dichlorobenzene	106-46-7	1 : 1	100	3.70E-01	3.70E-01	3.70E-01
Di-n-butylphthalate	84-74-2	1 : 1	100	3.70E-01	3.70E-01	3.70E-01
Dioxin						
Dioxin TEQ-HH	1746-01-6	1 : 1	100	1.52E-05	1.52E-05	1.52E-05
Metals						
Arsenic	7440-38-2	1 : 1	100	1.08E+01	1.08E+01	1.08E+01
Barium	7440-39-3	1 : 1	100	2.75E+02	2.75E+02	2.75E+02
Calcium	7440-70-2	1 : 1	100	1.50E+05	1.50E+05	1.50E+05
Cobalt	7440-48-4	1 : 1	100	2.40E+00	2.40E+00	2.40E+00
Iron	7439-89-6	1 : 1	100	5.55E+03	5.55E+03	5.55E+03
Magnesium	7439-95-4	1 : 1	100	2.90E+04	2.90E+04	2.90E+04
Manganese	7439-96-5	1 : 1	100	1.40E+03	1.40E+03	1.40E+03
Mercury	7439-97-6	1 : 1	100	8.50E-02	8.50E-02	8.50E-02
Nickel	7440-02-0	1 : 1	100	4.80E+00	4.80E+00	4.80E+00
Potassium	7440-09-7	1 : 1	100	4.85E+03	4.85E+03	4.85E+03
Sodium	7440-23-5	1 : 1	100	1.70E+04	1.70E+04	1.70E+04

Notes:
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-36
Walnut Street Time-Series Sampling Groundwater Data (24 Hour)

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
SVOCs						
1,4-Dichlorobenzene	106-46-7	1 : 1	100	3.20E-01	3.20E-01	3.20E-01
Acenaphthylene	208-96-8	1 : 1	100	8.70E-01	8.70E-01	8.70E-01
Benzo(a)anthracene	56-55-3	1 : 1	100	5.20E-01	5.20E-01	5.20E-01
Benzo(a)pyrene	50-32-8	1 : 1	100	4.90E-01	4.90E-01	4.90E-01
Benzo(b)fluoranthene	205-99-2	1 : 1	100	4.40E-01	4.40E-01	4.40E-01
Benzo(g,h,i)perylene	191-24-2	1 : 1	100	1.10E+00	1.10E+00	1.10E+00
Chrysene	218-01-9	1 : 1	100	7.00E-01	7.00E-01	7.00E-01
Fluorene	86-73-7	1 : 1	100	1.60E+00	1.60E+00	1.60E+00
Indeno(1,2,3-cd)pyrene	193-39-5	1 : 1	100	6.60E-01	6.60E-01	6.60E-01
Herbicides						
2,4,5-TP (Silvex)	93-72-1	1 : 1	100	9.80E-02	9.80E-02	9.80E-02
Pentachlorophenol	87-86-5	1 : 1	100	7.70E-02	7.70E-02	7.70E-02
Dioxin						
Dioxin TEQ-HH	1746-01-6	1 : 1	100	2.93E-07	2.93E-07	2.93E-07
Metals						
Arsenic	7440-38-2	1 : 1	100	1.30E+01	1.30E+01	1.30E+01
Barium	7440-39-3	1 : 1	100	2.70E+02	2.70E+02	2.70E+02
Calcium	7440-70-2	1 : 1	100	1.50E+05	1.50E+05	1.50E+05
Cobalt	7440-48-4	1 : 1	100	2.20E+00	2.20E+00	2.20E+00
Iron	7439-89-6	1 : 1	100	5.40E+03	5.40E+03	5.40E+03
Magnesium	7439-95-4	1 : 1	100	2.90E+04	2.90E+04	2.90E+04
Manganese	7439-96-5	1 : 1	100	1.40E+03	1.40E+03	1.40E+03
Mercury	7439-97-6	1 : 1	100	9.00E-02	9.00E-02	9.00E-02
Potassium	7440-09-7	1 : 1	100	4.70E+03	4.70E+03	4.70E+03
Sodium	7440-23-5	1 : 1	100	1.70E+04	1.70E+04	1.70E+04
Zinc	7440-66-6	1 : 1	100	1.30E+01	1.30E+01	1.30E+01

Notes:
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-37
Judith Lane Shallow Groundwater Data Summary

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Pesticides						
4,4'-DDE	72-55-9	1 : 3	33	2.00E-03	2.00E-03	2.00E-03
beta-BHC	319-85-7	1 : 3	33	2.00E-03	2.00E-03	2.00E-03
Gamma Chlordane	5103-74-2	1 : 3	33	1.20E-03	1.20E-03	1.20E-03
gamma-BHC (Lindane)	58-89-9	2 : 3	67	1.70E-03	3.80E-03	5.90E-03
Herbicides						
2,4-DB	94-82-6	1 : 3	33	6.60E-01	6.60E-01	6.60E-01
Dioxin						
Dioxin TEQ-HH	1746-01-6	2 : 3	67	1.38E-08	2.77E-08	4.16E-08
Metals						
Aluminum	7429-90-5	3 : 3	100	2.00E+03	3.27E+03	4.60E+03
Arsenic	7440-38-2	1 : 3	33	4.70E+00	4.70E+00	4.70E+00
Barium	7440-39-3	3 : 3	100	2.30E+02	3.47E+02	4.30E+02
Calcium	7440-70-2	3 : 3	100	1.40E+05	1.57E+05	1.70E+05
Chromium	7440-47-3	3 : 3	100	7.20E+00	9.13E+00	1.10E+01
Cobalt	7440-48-4	3 : 3	100	7.20E+00	8.90E+00	1.00E+01
Copper	7440-50-8	3 : 3	100	4.10E+00	4.90E+00	5.90E+00
Iron	7439-89-6	3 : 3	100	5.20E+03	6.77E+03	8.40E+03
Lead	7439-92-1	3 : 3	100	4.50E+00	4.83E+00	5.30E+00
Magnesium	7439-95-4	3 : 3	100	2.70E+04	3.00E+04	3.60E+04
Manganese	7439-96-5	3 : 3	100	3.50E+02	1.05E+03	1.60E+03
Molybdenum	7439-98-7	1 : 3	33	6.70E+00	6.70E+00	6.70E+00
Nickel	7440-02-0	3 : 3	100	1.60E+01	1.83E+01	2.20E+01
Potassium	7440-09-7	3 : 3	100	4.80E+03	6.07E+03	7.80E+03
Sodium	7440-23-5	3 : 3	100	1.80E+04	2.10E+04	2.60E+04
Vanadium	7440-62-2	3 : 3	100	6.90E+00	1.06E+01	1.40E+01
Zinc	7440-66-6	3 : 3	100	1.70E+01	2.43E+01	3.00E+01

Notes:
2,4-DB - 4-(2,4-Dichlorophenoxy) butyric acid.
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-38
Judith Lane Time-Series Sampling Groundwater Data (0 Hour)

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Dioxin						
Dioxin TEQ-HH	1746-01-6	1 : 1	100	3.04E-08	3.04E-08	3.04E-08
Metals						
Aluminum	7429-90-5	1 : 1	100	1.50E+03	1.50E+03	1.50E+03
Arsenic	7440-38-2	1 : 1	100	8.50E+00	8.50E+00	8.50E+00
Barium	7440-39-3	1 : 1	100	2.90E+02	2.90E+02	2.90E+02
Calcium	7440-70-2	1 : 1	100	1.50E+05	1.50E+05	1.50E+05
Chromium	7440-47-3	1 : 1	100	3.30E+00	3.30E+00	3.30E+00
Cobalt	7440-48-4	1 : 1	100	2.30E+00	2.30E+00	2.30E+00
Iron	7439-89-6	1 : 1	100	8.70E+03	8.70E+03	8.70E+03
Lead	7439-92-1	1 : 1	100	2.20E+00	2.20E+00	2.20E+00
Magnesium	7439-95-4	1 : 1	100	3.00E+04	3.00E+04	3.00E+04
Manganese	7439-96-5	1 : 1	100	1.50E+03	1.50E+03	1.50E+03
Mercury	7439-97-6	1 : 1	100	9.00E-02	9.00E-02	9.00E-02
Nickel	7440-02-0	1 : 1	100	4.80E+00	4.80E+00	4.80E+00
Potassium	7440-09-7	1 : 1	100	7.20E+03	7.20E+03	7.20E+03
Sodium	7440-23-5	1 : 1	100	2.40E+04	2.40E+04	2.40E+04
Vanadium	7440-62-2	1 : 1	100	3.80E+00	3.80E+00	3.80E+00
Zinc	7440-66-6	1 : 1	100	1.60E+01	1.60E+01	1.60E+01

Notes:
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-39
Judith Lane Time-Series Sampling Groundwater Data (12 Hour)

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs						
Trichloroethene	79-01-6	1 : 1	100	6.40E-01	6.40E-01	6.40E-01
Dioxin						
Dioxin TEQ-HH	1746-01-6	1 : 1	100	1.83E-09	1.83E-09	1.83E-09
Metals						
Arsenic	7440-38-2	1 : 1	100	7.10E+00	7.10E+00	7.10E+00
Barium	7440-39-3	1 : 1	100	2.30E+02	2.30E+02	2.30E+02
Calcium	7440-70-2	1 : 1	100	1.50E+05	1.50E+05	1.50E+05
Iron	7439-89-6	1 : 1	100	6.90E+03	6.90E+03	6.90E+03
Magnesium	7439-95-4	1 : 1	100	2.90E+04	2.90E+04	2.90E+04
Manganese	7439-96-5	1 : 1	100	1.50E+03	1.50E+03	1.50E+03
Potassium	7440-09-7	1 : 1	100	6.60E+03	6.60E+03	6.60E+03
Sodium	7440-23-5	1 : 1	100	2.40E+04	2.40E+04	2.40E+04

Notes:
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-40
Judith Lane Time-Series Sampling Groundwater Data (24 Hour)

Constituent	CAS No.	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
SVOCs						
Acenaphthylene	208-96-8	1 : 1	100	6.50E-01	6.50E-01	6.50E-01
Benzo(a)anthracene	56-55-3	1 : 1	100	3.70E-01	3.70E-01	3.70E-01
Benzo(g,h,i)perylene	191-24-2	1 : 1	100	7.20E-01	7.20E-01	7.20E-01
bis(2-Ethylhexyl)phthalate	117-81-7	1 : 1	100	7.00E-01	7.00E-01	7.00E-01
Chrysene	218-01-9	1 : 1	100	4.50E-01	4.50E-01	4.50E-01
Fluorene	86-73-7	1 : 1	100	1.30E+00	1.30E+00	1.30E+00
Metals						
Arsenic	7440-38-2	1 : 1	100	7.20E+00	7.20E+00	7.20E+00
Barium	7440-39-3	1 : 1	100	2.20E+02	2.20E+02	2.20E+02
Calcium	7440-70-2	1 : 1	100	1.40E+05	1.40E+05	1.40E+05
Iron	7439-89-6	1 : 1	100	6.80E+03	6.80E+03	6.80E+03
Magnesium	7439-95-4	1 : 1	100	2.80E+04	2.80E+04	2.80E+04
Manganese	7439-96-5	1 : 1	100	1.40E+03	1.40E+03	1.40E+03
Mercury	7439-97-6	1 : 1	100	1.00E-01	1.00E-01	1.00E-01
Potassium	7440-09-7	1 : 1	100	6.30E+03	6.30E+03	6.30E+03
Sodium	7440-23-5	1 : 1	100	2.30E+04	2.30E+04	2.30E+04

Notes:
CAS - Chemical Abstract Service.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.

(a) Number of samples detected: Total number of samples.
(b) Percent detected.
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Shading indicates an exceedence of the USEPA Maximum Contaminant Level (MCL) (2006) or the USEPA Regional Screening Level (RSL) (April, 2009) if an MCL is not available. The source of the screening criteria used for each constituent is presented on Table 3-89.

Table 3-41
Creek Segment B Surface Water Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Acetone	2 : 3	67	1.40E+01	1.60E+01	1.80E+01
Chlorobenzene	1 : 3	33	2.80E+00	2.80E+00	2.80E+00
Pesticides					
4,4'-DDD	1 : 3	33	5.20E-03	5.20E-03	5.20E-03
4,4'-DDT	1 : 3	33	4.00E-03	4.00E-03	4.00E-03
Aldrin	1 : 3	33	3.70E-03	3.70E-03	3.70E-03
alpha-BHC	2 : 3	67	1.10E-02	1.65E-02	2.20E-02
beta-BHC	2 : 3	67	1.90E-02	1.95E-02	2.00E-02
delta-BHC	3 : 3	100	5.00E-03	8.87E-03	1.50E-02
Dieldrin	1 : 3	33	3.50E-03	3.50E-03	3.50E-03
Endosulfan II	1 : 3	33	5.30E-03	5.30E-03	5.30E-03
Endrin aldehyde	1 : 3	33	2.50E-03	2.50E-03	2.50E-03
Gamma Chlordane	2 : 3	67	2.70E-03	4.05E-03	5.40E-03
gamma-BHC (Lindane)	2 : 3	67	3.80E-03	2.19E-02	4.00E-02
Heptachlor	2 : 3	67	1.60E-03	3.20E-03	4.80E-03
Heptachlor epoxide	2 : 3	67	1.60E-03	4.65E-03	7.70E-03
Herbicides					
Pentachlorophenol	1 : 3	33	1.00E+00	1.00E+00	1.00E+00
Dioxin					
Dioxin TEQ-HH	3 : 3	100	8.20E-06	1.49E-05	2.17E-05
Metals					
Aluminum	3 : 3	100	3.50E+01	4.73E+01	6.60E+01
Antimony	1 : 3	33	7.00E+00	7.00E+00	7.00E+00
Arsenic	2 : 3	67	5.20E+00	5.80E+00	6.40E+00
Barium	3 : 3	100	1.70E+02	2.33E+02	3.00E+02
Cadmium	1 : 3	33	9.10E-01	9.10E-01	9.10E-01
Calcium	3 : 3	100	5.10E+04	1.24E+05	1.80E+05
Copper	3 : 3	100	4.60E+01	7.83E+01	1.30E+02
Iron	1 : 3	33	4.30E+02	4.30E+02	4.30E+02
Lead	3 : 3	100	3.00E+00	4.60E+00	6.60E+00
Magnesium	3 : 3	100	6.00E+03	1.53E+04	2.30E+04
Manganese	3 : 3	100	6.80E+00	2.23E+01	3.40E+01
Molybdenum	3 : 3	100	1.20E+01	2.27E+01	3.20E+01
Nickel	3 : 3	100	9.60E+00	1.25E+01	1.50E+01
Potassium	3 : 3	100	4.80E+03	6.60E+03	7.70E+03
Sodium	3 : 3	100	2.80E+04	3.97E+04	5.40E+04
Zinc	3 : 3	100	4.50E+01	8.50E+01	1.30E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-41
Creek Segment B Surface Water Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-42
Creek Segment D Surface Water Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Acetone	3 : 3	100	1.10E+01	1.32E+01	1.70E+01
Pesticides					
4,4'-DDT	3 : 3	100	2.30E-03	4.47E-03	7.10E-03
Aldrin	2 : 3	67	2.00E-03	2.15E-03	2.30E-03
alpha-BHC	3 : 3	100	4.30E-03	8.93E-03	1.64E-02
beta-BHC	3 : 3	100	1.00E-02	2.75E-02	4.50E-02
delta-BHC	3 : 3	100	3.70E-03	6.68E-03	1.25E-02
Endosulfan I	1 : 3	33	5.10E-04	5.10E-04	5.10E-04
Endosulfan II	1 : 3	33	6.30E-03	6.30E-03	6.30E-03
Endosulfan sulfate	3 : 3	100	3.50E-03	8.70E-03	1.70E-02
Endrin	2 : 3	67	2.10E-03	3.75E-03	5.40E-03
Gamma Chlordane	1 : 3	33	5.00E-03	5.00E-03	5.00E-03
gamma-BHC (Lindane)	3 : 3	100	1.00E-02	2.35E-02	4.54E-02
Heptachlor	3 : 3	100	6.40E-03	8.78E-03	1.20E-02
Heptachlor epoxide	3 : 3	100	1.10E-02	1.40E-02	1.70E-02
PCBs					
Total PCBs	1 : 3	33	5.50E-02	5.50E-02	5.50E-02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	1.64E-05	1.70E-05	1.77E-05
Metals					
Aluminum	3 : 3	100	3.30E+02	6.90E+02	1.40E+03
Arsenic	1 : 3	33	5.00E+00	5.00E+00	5.00E+00
Barium	3 : 3	100	1.60E+02	1.68E+02	1.75E+02
Calcium	3 : 3	100	4.80E+04	4.92E+04	5.00E+04
Chromium	1 : 3	33	5.70E+00	5.70E+00	5.70E+00
Copper	3 : 3	100	1.50E+01	1.88E+01	2.60E+01
Iron	3 : 3	100	9.60E+02	1.29E+03	1.80E+03
Lead	3 : 3	100	6.60E+00	1.05E+01	1.60E+01
Magnesium	3 : 3	100	6.00E+03	6.38E+03	6.60E+03
Manganese	3 : 3	100	4.60E+01	6.08E+01	8.20E+01
Molybdenum	3 : 3	100	3.30E+00	4.42E+00	5.20E+00
Nickel	3 : 3	100	1.70E+01	1.90E+01	2.20E+01
Potassium	3 : 3	100	5.00E+03	5.70E+03	6.30E+03
Selenium	1 : 3	33	4.60E+00	4.60E+00	4.60E+00
Sodium	3 : 3	100	8.10E+03	9.23E+03	1.10E+04
Vanadium	3 : 3	100	4.15E+00	5.15E+00	7.00E+00
Zinc	3 : 3	100	5.00E+01	8.38E+01	1.50E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-42
Creek Segment D Surface Water Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-43
Creek Segment E Surface Water Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
SVOCs					
Fluoranthene	1 : 1	100	1.20E+00	1.20E+00	1.20E+00
Phenanthrene	1 : 1	100	6.70E-01	6.70E-01	6.70E-01
Pyrene	1 : 1	100	8.70E-01	8.70E-01	8.70E-01
Pesticides					
alpha-BHC	1 : 1	100	3.50E-03	3.50E-03	3.50E-03
beta-BHC	1 : 1	100	1.20E-02	1.20E-02	1.20E-02
delta-BHC	1 : 1	100	2.80E-02	2.80E-02	2.80E-02
gamma-BHC (Lindane)	1 : 1	100	2.80E-03	2.80E-03	2.80E-03
Dioxin					
Dioxin TEQ-HH	1 : 1	100	2.95E-06	2.95E-06	2.95E-06
Metals					
Barium	1 : 1	100	6.60E+01	6.60E+01	6.60E+01
Calcium	1 : 1	100	4.40E+04	4.40E+04	4.40E+04
Copper	1 : 1	100	9.20E+00	9.20E+00	9.20E+00
Iron	1 : 1	100	1.20E+03	1.20E+03	1.20E+03
Magnesium	1 : 1	100	1.50E+04	1.50E+04	1.50E+04
Manganese	1 : 1	100	1.40E+02	1.40E+02	1.40E+02
Potassium	1 : 1	100	4.80E+03	4.80E+03	4.80E+03
Sodium	1 : 1	100	2.30E+04	2.30E+04	2.30E+04
Zinc	1 : 1	100	7.30E+01	7.30E+01	7.30E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-44
Creek Segment F Surface Water Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Benzene	1 : 3	33	1.70E+00	1.70E+00	1.70E+00
SVOCs					
Fluoranthene	1 : 3	33	7.00E-01	7.00E-01	7.00E-01
Phenanthrene	1 : 3	33	7.00E-01	7.00E-01	7.00E-01
Dioxin					
Dioxin TEQ-HH	3 : 3	100	1.95E-06	4.39E-06	9.16E-06
Metals					
Aluminum	3 : 3	100	3.90E+01	2.46E+02	5.50E+02
Arsenic	2 : 3	67	3.20E+00	4.05E+00	4.90E+00
Barium	3 : 3	100	1.20E+02	1.27E+02	1.30E+02
Calcium	3 : 3	100	5.20E+04	5.27E+04	5.30E+04
Copper	3 : 3	100	1.60E+00	5.20E+00	1.20E+01
Iron	3 : 3	100	5.00E+02	6.83E+02	1.00E+03
Lead	2 : 3	67	2.20E+00	2.95E+00	3.70E+00
Magnesium	3 : 3	100	3.00E+04	3.20E+04	3.30E+04
Manganese	3 : 3	100	8.20E+01	1.07E+02	1.40E+02
Molybdenum	1 : 3	33	2.80E+00	2.80E+00	2.80E+00
Nickel	3 : 3	100	6.90E+00	1.36E+01	2.10E+01
Potassium	3 : 3	100	6.40E+03	6.60E+03	6.90E+03
Sodium	3 : 3	100	2.10E+04	2.13E+04	2.20E+04
Vanadium	1 : 3	33	3.00E+00	3.00E+00	3.00E+00
Zinc	3 : 3	100	7.30E+00	3.91E+01	7.50E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-45
Site M Surface Water Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Pesticides					
Aldrin	1 : 1	100	1.40E-03	1.40E-03	1.40E-03
alpha-BHC	1 : 1	100	9.10E-04	9.10E-04	9.10E-04
beta-BHC	1 : 1	100	2.70E-04	2.70E-04	2.70E-04
delta-BHC	1 : 1	100	3.50E-04	3.50E-04	3.50E-04
gamma-BHC (Lindane)	1 : 1	100	3.60E-03	3.60E-03	3.60E-03
4,4'-DDE	1 : 1	100	3.40E-03	3.40E-03	3.40E-03
Endrin aldehyde	1 : 1	100	2.50E-03	2.50E-03	2.50E-03
Heptachlor	1 : 1	100	3.50E-03	3.50E-03	3.50E-03
Heptachlor epoxide	1 : 1	100	8.00E-03	8.00E-03	8.00E-03
Dioxin					
Dioxin TEQ-HH	1 : 1	100	1.59E-05	1.59E-05	1.59E-05
Metals					
Aluminum	1 : 1	100	7.80E+01	7.80E+01	7.80E+01
Barium	1 : 1	100	2.10E+02	2.10E+02	2.10E+02
Calcium	1 : 1	100	4.80E+04	4.80E+04	4.80E+04
Copper	1 : 1	100	4.60E+01	4.60E+01	4.60E+01
Iron	1 : 1	100	1.90E+03	1.90E+03	1.90E+03
Lead	1 : 1	100	7.00E+00	7.00E+00	7.00E+00
Magnesium	1 : 1	100	4.80E+03	4.80E+03	4.80E+03
Manganese	1 : 1	100	1.70E+02	1.70E+02	1.70E+02
Molybdenum	1 : 1	100	1.00E+01	1.00E+01	1.00E+01
Nickel	1 : 1	100	1.20E+01	1.20E+01	1.20E+01
Potassium	1 : 1	100	4.20E+03	4.20E+03	4.20E+03
Sodium	1 : 1	100	2.70E+04	2.70E+04	2.70E+04
Zinc	1 : 1	100	3.00E+01	3.00E+01	3.00E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-46
Borrow Pit Lake Surface Water Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Acetone	3 : 3	100	1.30E+01	1.50E+01	1.80E+01
Pesticides					
alpha-BHC	2 : 3	67	4.70E-04	7.35E-04	1.00E-03
beta-BHC	3 : 3	100	9.60E-03	1.39E-02	2.00E-02
delta-BHC	2 : 3	67	1.30E-04	1.17E-03	2.20E-03
Dieldrin	1 : 3	33	1.00E-03	1.00E-03	1.00E-03
Endosulfan I	2 : 3	67	1.50E-03	1.95E-03	2.40E-03
Endosulfan sulfate	1 : 3	33	3.20E-03	3.20E-03	3.20E-03
Endrin	1 : 3	33	9.50E-04	9.50E-04	9.50E-04
Endrin aldehyde	2 : 3	67	1.60E-03	2.40E-03	3.20E-03
Endrin ketone	1 : 3	33	2.70E-03	2.70E-03	2.70E-03
gamma-BHC (Lindane)	2 : 3	67	2.40E-03	3.10E-03	3.80E-03
Heptachlor	3 : 3	100	2.20E-03	2.57E-03	2.90E-03
Heptachlor epoxide	2 : 3	67	9.00E-04	9.30E-04	9.60E-04
Dioxin					
Dioxin TEQ-HH	3 : 3	100	8.69E-07	9.82E-07	1.16E-06
Metals					
Aluminum	3 : 3	100	6.50E+02	1.59E+03	3.40E+03
Arsenic	3 : 3	100	7.90E+00	1.16E+01	1.50E+01
Barium	3 : 3	100	4.50E+01	1.62E+02	3.20E+02
Calcium	3 : 3	100	4.70E+04	6.37E+04	8.90E+04
Chromium	1 : 3	33	4.10E+00	4.10E+00	4.10E+00
Cobalt	1 : 3	33	1.50E+00	1.50E+00	1.50E+00
Copper	3 : 3	100	3.60E+00	5.27E+00	7.40E+00
Iron	3 : 3	100	1.30E+03	3.87E+03	8.70E+03
Lead	3 : 3	100	2.00E+00	8.30E+00	2.00E+01
Magnesium	3 : 3	100	2.60E+04	2.90E+04	3.10E+04
Manganese	3 : 3	100	1.30E+02	6.67E+02	1.70E+03
Molybdenum	2 : 3	67	3.50E+00	3.75E+00	4.00E+00
Nickel	3 : 3	100	7.70E+00	1.16E+01	1.50E+01
Potassium	3 : 3	100	5.10E+03	6.57E+03	7.60E+03
Sodium	3 : 3	100	2.10E+04	2.23E+04	2.40E+04
Vanadium	3 : 3	100	5.10E+00	1.00E+01	1.40E+01
Zinc	3 : 3	100	1.70E+01	3.07E+01	4.80E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-47
Prairie du Pont Creek Surface Water Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Benzene	1 : 2	50	3.00E-01	3.00E-01	3.00E-01
SVOCs					
Benzo(a)anthracene	1 : 2	50	6.20E-01	6.20E-01	6.20E-01
Benzo(a)pyrene	2 : 2	100	7.70E-01	9.35E-01	1.10E+00
Benzo(b)fluoranthene	2 : 2	100	6.60E-01	8.05E-01	9.50E-01
Benzo(k)fluoranthene	2 : 2	100	7.60E-01	1.23E+00	1.70E+00
bis(2-Ethylhexyl)phthalate	2 : 2	100	5.10E-01	6.75E-01	8.40E-01
Chrysene	1 : 2	50	7.40E-01	7.40E-01	7.40E-01
Dibenzo(a,h)anthracene	2 : 2	100	8.10E-01	1.00E+00	1.20E+00
Di-n-butylphthalate	2 : 2	100	3.00E-01	3.00E-01	3.00E-01
Di-n-octylphthalate	1 : 2	50	1.10E+00	1.10E+00	1.10E+00
Dioxin					
Dioxin TEQ-HH	2 : 2	100	4.95E-06	5.64E-06	6.34E-06
Metals					
Aluminum	2 : 2	100	1.65E+03	2.13E+03	2.60E+03
Arsenic	1 : 2	50	5.10E+00	5.10E+00	5.10E+00
Barium	2 : 2	100	1.70E+02	1.75E+02	1.80E+02
Calcium	2 : 2	100	9.90E+04	9.95E+04	1.00E+05
Cobalt	2 : 2	100	1.60E+00	1.75E+00	1.90E+00
Iron	2 : 2	100	2.65E+03	3.33E+03	4.00E+03
Lead	1 : 2	50	1.90E+00	1.90E+00	1.90E+00
Magnesium	2 : 2	100	4.00E+04	4.00E+04	4.00E+04
Manganese	2 : 2	100	5.75E+02	6.03E+02	6.30E+02
Molybdenum	2 : 2	100	3.25E+00	3.48E+00	3.70E+00
Nickel	1 : 2	50	5.00E+00	5.00E+00	5.00E+00
Potassium	2 : 2	100	7.50E+03	7.50E+03	7.50E+03
Sodium	2 : 2	100	7.90E+04	1.25E+05	1.70E+05
Zinc	2 : 2	100	2.15E+01	2.18E+01	2.20E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-48
Reference Area Surface Water Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Acetone	1 : 4	25	2.60E+01	2.60E+01	2.60E+01
Pesticides					
4,4'-DDE	1 : 4	25	1.50E-03	1.50E-03	1.50E-03
4,4'-DDT	1 : 4	25	5.70E-03	5.70E-03	5.70E-03
Aldrin	2 : 4	50	2.40E-03	3.20E-03	4.00E-03
Alpha Chlordane	2 : 4	50	1.90E-03	7.45E-03	1.30E-02
alpha-BHC	1 : 4	25	1.55E-03	1.55E-03	1.55E-03
beta-BHC	4 : 4	100	4.80E-03	1.10E-02	1.50E-02
delta-BHC	1 : 4	25	7.00E-03	7.00E-03	7.00E-03
Dieldrin	2 : 4	50	2.10E-03	2.85E-03	3.60E-03
Endosulfan I	4 : 4	100	1.70E-03	4.10E-03	1.10E-02
Endosulfan II	1 : 4	25	1.00E-04	1.00E-04	1.00E-04
Endosulfan sulfate	3 : 4	75	2.80E-03	4.63E-03	7.00E-03
Endrin	2 : 4	50	4.80E-04	2.94E-03	5.40E-03
Endrin aldehyde	1 : 4	25	2.30E-03	2.30E-03	2.30E-03
Endrin ketone	2 : 4	50	4.70E-03	7.85E-03	1.10E-02
Gamma Chlordane	2 : 4	50	8.20E-04	1.96E-03	3.10E-03
gamma-BHC (Lindane)	4 : 4	100	1.00E-03	4.58E-03	6.60E-03
Heptachlor	1 : 4	25	3.50E-03	3.50E-03	3.50E-03
Heptachlor epoxide	4 : 4	100	4.70E-03	5.93E-03	8.20E-03
Dioxin					
Dioxin TEQ-HH	4 : 4	100	1.11E-05	2.15E-05	2.70E-05
Metals					
Aluminum	4 : 4	100	9.40E+03	1.32E+04	1.95E+04
Arsenic	4 : 4	100	9.30E+00	1.46E+01	1.70E+01
Barium	4 : 4	100	3.20E+02	3.59E+02	4.10E+02
Beryllium	2 : 4	50	6.65E-01	7.48E-01	8.30E-01
Calcium	4 : 4	100	5.00E+04	5.86E+04	7.20E+04
Chromium	4 : 4	100	1.10E+01	1.54E+01	2.25E+01
Cobalt	4 : 4	100	4.70E+00	5.70E+00	7.60E+00
Copper	4 : 4	100	9.70E+00	1.23E+01	1.85E+01
Iron	4 : 4	100	1.10E+04	1.64E+04	2.55E+04
Lead	4 : 4	100	2.00E+01	2.58E+01	3.20E+01
Magnesium	4 : 4	100	2.30E+04	2.68E+04	3.50E+04
Manganese	4 : 4	100	1.50E+03	1.98E+03	2.90E+03
Molybdenum	4 : 4	100	3.20E+00	5.36E+00	6.55E+00
Nickel	4 : 4	100	1.30E+01	1.74E+01	2.45E+01
Potassium	4 : 4	100	7.00E+03	8.50E+03	1.10E+04
Sodium	4 : 4	100	1.60E+04	1.90E+04	2.30E+04
Vanadium	4 : 4	100	3.10E+01	4.24E+01	5.25E+01
Zinc	4 : 4	100	4.20E+01	7.59E+01	1.30E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
SVOC - Semivolatile organic compound.

Table 3-48
Reference Area Surface Water Data Summary

TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-49
Creek Segment B Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
2-Hexanone	1 : 3	33	2.10E-02	2.10E-02	2.10E-02
Chlorobenzene	3 : 3	100	2.00E-02	3.25E-02	5.15E-02
Toluene	1 : 3	33	2.00E-02	2.00E-02	2.00E-02
SVOCs					
1,2,4-Trichlorobenzene	1 : 3	33	7.70E-01	7.70E-01	7.70E-01
1,2-Dichlorobenzene	1 : 3	33	3.70E-01	3.70E-01	3.70E-01
1,4-Dichlorobenzene	2 : 3	67	5.20E-01	7.60E-01	1.00E+00
4-Chloroaniline	1 : 3	33	8.30E-01	8.30E-01	8.30E-01
Benzo(a)anthracene	3 : 3	100	6.80E-01	7.77E-01	8.70E-01
Benzo(a)pyrene	3 : 3	100	7.30E-01	1.02E+00	1.20E+00
Benzo(b)fluoranthene	3 : 3	100	1.10E+00	1.50E+00	2.00E+00
Benzo(g,h,i)perylene	3 : 3	100	7.90E-01	1.18E+00	1.60E+00
Benzo(k)fluoranthene	3 : 3	100	9.20E-01	1.24E+00	1.60E+00
bis(2-Ethylhexyl)phthalate	1 : 3	33	3.00E+00	3.00E+00	3.00E+00
Chrysene	3 : 3	100	1.10E+00	1.40E+00	1.80E+00
Fluoranthene	3 : 3	100	1.80E+00	1.90E+00	2.00E+00
Indeno(1,2,3-cd)pyrene	2 : 3	67	1.00E+00	1.15E+00	1.30E+00
Naphthalene	1 : 3	33	3.80E-01	3.80E-01	3.80E-01
Phenanthrene	3 : 3	100	8.10E-01	8.83E-01	9.30E-01
Pyrene	3 : 3	100	2.00E+00	2.20E+00	2.40E+00
Pesticides					
4,4'-DDD	1 : 3	33	1.50E-01	1.50E-01	1.50E-01
Aldrin	3 : 3	100	4.10E-01	8.30E-01	1.10E+00
Endosulfan sulfate	3 : 3	100	8.40E-02	1.04E-01	1.30E-01
Endrin aldehyde	1 : 3	33	5.20E-01	5.20E-01	5.20E-01
Gamma Chlordane	1 : 3	33	7.20E-01	7.20E-01	7.20E-01
Heptachlor	1 : 3	33	5.00E-01	5.00E-01	5.00E-01
Herbicides					
Pentachlorophenol	3 : 3	100	4.65E-02	1.08E-01	2.20E-01
PCBs					
Total PCBs	3 : 3	100	6.97E+01	1.32E+02	2.26E+02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	4.46E-03	9.39E-03	1.34E-02
Metals					
Aluminum	3 : 3	100	6.55E+03	8.95E+03	1.20E+04
Antimony	3 : 3	100	6.30E+00	7.33E+00	8.90E+00
Arsenic	3 : 3	100	2.50E+01	3.20E+01	3.80E+01
Barium	3 : 3	100	7.50E+02	1.92E+03	3.30E+03
Cadmium	3 : 3	100	1.50E+01	2.17E+01	2.50E+01
Calcium	3 : 3	100	8.70E+04	1.22E+05	1.80E+05
Chromium	3 : 3	100	4.15E+01	6.52E+01	7.80E+01
Cobalt	3 : 3	100	6.95E+00	9.62E+00	1.20E+01
Copper	3 : 3	100	4.85E+03	7.52E+03	1.10E+04
Iron	3 : 3	100	1.30E+04	2.23E+04	2.90E+04
Lead	3 : 3	100	5.60E+02	7.70E+02	1.00E+03
Magnesium	3 : 3	100	1.00E+04	1.37E+04	2.00E+04

Table 3-49
Creek Segment B Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)					
Manganese	3 : 3	100	2.10E+02	2.28E+02	2.45E+02
Mercury	3 : 3	100	7.60E-01	1.22E+00	1.50E+00
Molybdenum	3 : 3	100	4.30E+00	5.37E+00	7.00E+00
Nickel	3 : 3	100	7.75E+01	3.19E+02	5.00E+02
Potassium	3 : 3	100	1.65E+03	1.92E+03	2.40E+03
Selenium	3 : 3	100	2.90E+00	3.83E+00	5.10E+00
Silver	3 : 3	100	6.70E+00	1.02E+01	1.50E+01
Thallium	1 : 3	33	2.10E+00	2.10E+00	2.10E+00
Vanadium	3 : 3	100	2.75E+01	3.52E+01	4.10E+01
Zinc	3 : 3	100	1.80E+03	4.83E+03	7.90E+03

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-50
Creek Segment C Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
2-Butanone (MEK)	3 : 3	100	2.80E-02	3.20E-02	3.70E-02
Acetone	3 : 3	100	9.60E-02	1.09E-01	1.30E-01
SVOCs					
Benzo(a)anthracene	2 : 3	67	5.30E-01	7.10E-01	8.90E-01
Benzo(a)pyrene	1 : 3	33	1.40E+00	1.40E+00	1.40E+00
Benzo(b)fluoranthene	3 : 3	100	6.00E-01	1.09E+00	2.00E+00
Benzo(g,h,i)perylene	1 : 3	33	1.40E+00	1.40E+00	1.40E+00
Benzo(k)fluoranthene	2 : 3	67	3.90E-01	7.95E-01	1.20E+00
Chrysene	3 : 3	100	5.00E-01	8.80E-01	1.50E+00
Fluoranthene	3 : 3	100	7.80E-01	1.26E+00	2.20E+00
Phenanthrene	3 : 3	100	3.20E-01	5.63E-01	8.40E-01
Pyrene	3 : 3	100	6.60E-01	1.20E+00	2.00E+00
Pesticides					
4,4'-DDD	1 : 3	33	2.80E-02	2.80E-02	2.80E-02
4,4'-DDE	1 : 3	33	5.10E-02	5.10E-02	5.10E-02
Aldrin	3 : 3	100	2.50E-02	4.37E-02	6.40E-02
Alpha Chlordane	3 : 3	100	3.70E-02	7.03E-02	1.20E-01
delta-BHC	1 : 3	33	1.80E-02	1.80E-02	1.80E-02
Endosulfan sulfate	2 : 3	67	9.00E-03	1.25E-02	1.60E-02
Gamma Chlordane	3 : 3	100	1.10E-01	1.67E-01	2.50E-01
Heptachlor	2 : 3	67	9.10E-03	9.40E-03	9.70E-03
Herbicides					
Pentachlorophenol	3 : 3	100	7.40E-03	1.78E-02	2.30E-02
PCBs					
Total PCBs	3 : 3	100	2.70E-01	2.60E+00	4.60E+00
Dioxin					
Dioxin TEQ-HH	3 : 3	100	9.40E-04	1.95E-03	3.17E-03
Metals					
Aluminum	3 : 3	100	9.70E+03	1.22E+04	1.50E+04
Antimony	3 : 3	100	1.30E+00	1.77E+00	2.20E+00
Arsenic	3 : 3	100	1.60E+01	2.03E+01	2.80E+01
Barium	3 : 3	100	4.70E+02	6.50E+02	8.00E+02
Cadmium	3 : 3	100	1.60E+01	1.83E+01	2.00E+01
Calcium	3 : 3	100	2.30E+04	3.27E+04	4.70E+04
Chromium	3 : 3	100	4.70E+01	6.33E+01	9.30E+01
Cobalt	3 : 3	100	9.70E+00	1.29E+01	1.70E+01
Copper	3 : 3	100	1.40E+03	1.90E+03	2.20E+03
Iron	3 : 3	100	2.10E+04	2.40E+04	2.70E+04
Lead	3 : 3	100	2.70E+02	3.60E+02	4.80E+02
Magnesium	3 : 3	100	3.60E+03	5.17E+03	6.40E+03
Manganese	3 : 3	100	2.40E+02	2.87E+02	3.30E+02
Mercury	3 : 3	100	5.80E-01	6.27E-01	6.60E-01
Molybdenum	2 : 3	67	2.20E+00	2.80E+00	3.40E+00
Nickel	3 : 3	100	3.70E+02	5.00E+02	5.80E+02
Potassium	3 : 3	100	2.10E+03	2.50E+03	3.00E+03
Silver	3 : 3	100	1.20E+00	1.53E+00	1.80E+00

Table 3-50
Creek Segment C Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)					
Vanadium	3 : 3	100	3.40E+01	3.93E+01	4.80E+01
Zinc	3 : 3	100	2.90E+03	3.57E+03	4.50E+03

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-51
Creek Segment D Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
2-Butanone (MEK)	3 : 3	100	3.00E-02	5.03E-02	6.50E-02
Acetone	3 : 3	100	8.40E-02	1.48E-01	1.90E-01
SVOCs					
Benzo(a)anthracene	1 : 3	33	4.20E-01	4.20E-01	4.20E-01
Benzo(a)pyrene	1 : 3	33	5.60E-01	5.60E-01	5.60E-01
Benzo(b)fluoranthene	3 : 3	100	7.80E-01	8.87E-01	9.70E-01
Benzo(g,h,i)perylene	1 : 3	33	6.60E-01	6.60E-01	6.60E-01
Benzo(k)fluoranthene	3 : 3	100	5.20E-01	5.97E-01	6.60E-01
bis(2-Ethylhexyl)phthalate	1 : 3	33	1.20E+00	1.20E+00	1.20E+00
Chrysene	3 : 3	100	6.70E-01	7.33E-01	7.90E-01
Fluoranthene	3 : 3	100	1.00E+00	1.13E+00	1.20E+00
Phenanthrene	1 : 3	33	4.10E-01	4.10E-01	4.10E-01
Pyrene	3 : 3	100	9.50E-01	1.01E+00	1.10E+00
Pesticides					
4,4'-DDE	3 : 3	100	4.40E-03	1.28E-02	2.00E-02
Aldrin	3 : 3	100	2.70E-03	7.77E-03	1.10E-02
Alpha Chlordane	2 : 3	67	1.40E-02	2.00E-02	2.60E-02
delta-BHC	2 : 3	67	1.50E-03	8.75E-03	1.60E-02
Endrin aldehyde	1 : 3	33	1.60E-02	1.60E-02	1.60E-02
Endrin ketone	1 : 3	33	5.50E-03	5.50E-03	5.50E-03
Gamma Chlordane	3 : 3	100	6.70E-03	2.82E-02	4.90E-02
Herbicides					
Dicamba	1 : 3	33	1.30E-02	1.30E-02	1.30E-02
Pentachlorophenol	1 : 3	33	3.90E-03	3.90E-03	3.90E-03
PCBs					
Total PCBs	3 : 3	100	6.97E-01	9.59E-01	1.15E+00
Dioxin					
Dioxin TEQ-HH	3 : 3	100	4.54E-04	6.11E-04	7.17E-04
Metals					
Aluminum	3 : 3	100	1.30E+04	1.40E+04	1.60E+04
Arsenic	3 : 3	100	1.00E+01	1.43E+01	1.70E+01
Barium	3 : 3	100	3.10E+02	3.63E+02	4.00E+02
Cadmium	3 : 3	100	1.00E+01	1.27E+01	1.50E+01
Calcium	3 : 3	100	2.60E+04	2.80E+04	3.00E+04
Chromium	3 : 3	100	5.60E+01	6.10E+01	6.70E+01
Cobalt	3 : 3	100	8.80E+00	1.09E+01	1.20E+01
Copper	3 : 3	100	3.20E+02	5.97E+02	7.40E+02
Iron	3 : 3	100	1.90E+04	2.20E+04	2.50E+04
Lead	3 : 3	100	1.70E+02	2.20E+02	2.60E+02
Magnesium	3 : 3	100	6.60E+03	6.93E+03	7.50E+03
Manganese	3 : 3	100	2.50E+02	2.80E+02	3.20E+02
Mercury	3 : 3	100	3.50E-01	4.23E-01	5.00E-01
Nickel	3 : 3	100	1.50E+02	2.23E+02	2.60E+02
Potassium	3 : 3	100	2.70E+03	2.93E+03	3.20E+03
Vanadium	3 : 3	100	3.70E+01	4.40E+01	5.10E+01
Zinc	3 : 3	100	1.80E+03	2.33E+03	2.70E+03

Table 3-51
Creek Segment D Broad-Scan Sediment Data Summary

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-52
Creek Segment E Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
2-Butanone (MEK)	1 : 3	33	5.20E-01	5.20E-01	5.20E-01
Acetone	1 : 3	33	1.20E+00	1.20E+00	1.20E+00
SVOCs					
Benzo(a)anthracene	3 : 3	100	1.00E-01	1.87E-01	3.40E-01
Benzo(a)pyrene	3 : 3	100	1.50E-01	2.47E-01	4.20E-01
Benzo(b)fluoranthene	3 : 3	100	1.70E-01	3.17E-01	5.20E-01
Benzo(g,h,i)perylene	3 : 3	100	1.40E-01	2.20E-01	3.50E-01
Benzo(k)fluoranthene	2 : 3	67	1.70E-01	3.85E-01	6.00E-01
bis(2-Ethylhexyl)phthalate	2 : 3	67	2.50E-01	2.55E-01	2.60E-01
Chrysene	3 : 3	100	1.90E-01	3.57E-01	6.60E-01
Fluoranthene	3 : 3	100	3.20E-01	6.37E-01	1.20E+00
Indeno(1,2,3-cd)pyrene	3 : 3	100	1.30E-01	2.37E-01	4.30E-01
Phenanthrene	3 : 3	100	1.20E-01	2.53E-01	5.10E-01
Pyrene	3 : 3	100	2.50E-01	5.20E-01	1.00E+00
Pesticides					
4,4'-DDE	3 : 3	100	3.40E-03	7.57E-03	1.50E-02
4,4'-DDT	1 : 3	33	9.30E-03	9.30E-03	9.30E-03
Alpha Chlordane	3 : 3	100	2.50E-03	4.43E-03	6.90E-03
delta-BHC	1 : 3	33	1.30E-03	1.30E-03	1.30E-03
Dieldrin	3 : 3	100	1.70E-03	5.50E-03	9.40E-03
Endosulfan II	2 : 3	67	2.30E-03	7.15E-03	1.20E-02
Endosulfan sulfate	1 : 3	33	1.00E-02	1.00E-02	1.00E-02
Endrin	1 : 3	33	4.60E-03	4.60E-03	4.60E-03
Endrin aldehyde	2 : 3	67	3.60E-03	1.28E-02	2.20E-02
Endrin ketone	2 : 3	67	6.80E-03	1.19E-02	1.70E-02
Gamma Chlordane	3 : 3	100	5.10E-03	8.33E-03	1.40E-02
Heptachlor	1 : 3	33	5.30E-04	5.30E-04	5.30E-04
Heptachlor epoxide	1 : 3	33	5.20E-03	5.20E-03	5.20E-03
Methoxychlor	1 : 3	33	3.90E-02	3.90E-02	3.90E-02
Herbicides					
2,4-D	1 : 3	33	7.30E-02	7.30E-02	7.30E-02
2,4-DB	1 : 3	33	1.50E-01	1.50E-01	1.50E-01
Pentachlorophenol	2 : 3	67	3.80E-03	7.90E-03	1.20E-02
PCBs					
Total PCBs	1 : 3	33	1.04E+00	1.04E+00	1.04E+00
Dioxin					
Dioxin TEQ-HH	3 : 3	100	1.21E-04	3.10E-04	4.81E-04
Metals					
Aluminum	3 : 3	100	1.10E+04	1.30E+04	1.50E+04
Antimony	2 : 3	67	2.00E+00	2.35E+00	2.70E+00
Arsenic	3 : 3	100	9.30E+00	1.24E+01	1.60E+01
Barium	3 : 3	100	1.90E+02	2.73E+02	3.40E+02
Beryllium	2 : 3	67	7.50E-01	7.95E-01	8.40E-01
Cadmium	3 : 3	100	7.70E+00	1.09E+01	1.40E+01
Calcium	3 : 3	100	2.60E+04	4.97E+04	8.00E+04

Table 3-52
Creek Segment E Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)					
Chromium	3 : 3	100	3.10E+01	5.03E+01	7.10E+01
Cobalt	3 : 3	100	7.40E+00	8.87E+00	1.00E+01
Copper	3 : 3	100	1.50E+02	3.57E+02	5.70E+02
Iron	3 : 3	100	1.70E+04	2.03E+04	2.40E+04
Lead	3 : 3	100	1.40E+02	2.13E+02	3.10E+02
Magnesium	3 : 3	100	7.40E+03	9.87E+03	1.30E+04
Manganese	3 : 3	100	1.70E+02	2.67E+02	3.20E+02
Mercury	3 : 3	100	3.00E-01	3.70E-01	5.10E-01
Molybdenum	3 : 3	100	1.60E+00	2.47E+00	3.20E+00
Nickel	3 : 3	100	5.10E+01	1.24E+02	1.90E+02
Potassium	3 : 3	100	2.40E+03	2.70E+03	3.10E+03
Silver	2 : 3	67	6.70E-01	8.85E-01	1.10E+00
Thallium	1 : 3	33	1.90E+00	1.90E+00	1.90E+00
Vanadium	3 : 3	100	3.70E+01	4.27E+01	5.10E+01
Zinc	3 : 3	100	9.80E+02	1.69E+03	2.30E+03

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-53
Creek Segment F Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Ethylbenzene	1 : 3	33	1.10E-02	1.10E-02	1.10E-02
SVOCs					
Chrysene	1 : 3	33	7.40E-02	7.40E-02	7.40E-02
Fluoranthene	2 : 3	67	1.20E-01	1.25E-01	1.30E-01
Pesticides					
4,4'-DDD	1 : 3	33	3.80E-03	3.80E-03	3.80E-03
4,4'-DDE	3 : 3	100	2.50E-03	7.20E-03	1.10E-02
4,4'-DDT	1 : 3	33	4.50E-03	4.50E-03	4.50E-03
Aldrin	1 : 3	33	4.10E-03	4.10E-03	4.10E-03
Alpha Chlordane	3 : 3	100	8.40E-04	3.58E-03	5.30E-03
delta-BHC	1 : 3	33	3.40E-04	3.40E-04	3.40E-04
Dieldrin	2 : 3	67	9.90E-04	5.14E-03	9.30E-03
Endosulfan I	3 : 3	100	1.20E-03	2.97E-03	5.70E-03
Endosulfan II	3 : 3	100	1.80E-03	5.13E-03	8.10E-03
Endosulfan sulfate	1 : 3	33	2.80E-03	2.80E-03	2.80E-03
Endrin	2 : 3	67	1.70E-03	1.70E-03	1.70E-03
Endrin aldehyde	3 : 3	100	3.60E-03	8.87E-03	1.40E-02
Endrin ketone	3 : 3	100	3.80E-03	7.00E-03	1.00E-02
Gamma Chlordane	3 : 3	100	2.40E-03	8.97E-03	1.70E-02
Heptachlor	1 : 3	33	9.30E-04	9.30E-04	9.30E-04
Heptachlor epoxide	2 : 3	67	5.10E-04	2.96E-03	5.40E-03
Methoxychlor	3 : 3	100	7.30E-03	1.51E-02	2.40E-02
Herbicides					
2,4-D	1 : 3	33	2.30E-02	2.30E-02	2.30E-02
PCBs					
Total PCBs	2 : 3	67	8.30E-02	8.30E-02	8.30E-02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	1.52E-04	2.27E-04	3.50E-04
Metals					
Aluminum	3 : 3	100	7.80E+03	1.29E+04	1.70E+04
Antimony	2 : 3	67	2.50E+00	2.55E+00	2.60E+00
Arsenic	3 : 3	100	8.00E+00	1.40E+01	1.90E+01
Barium	3 : 3	100	1.50E+02	2.23E+02	2.70E+02
Beryllium	3 : 3	100	5.30E-01	7.57E-01	8.90E-01
Cadmium	3 : 3	100	7.40E+00	2.28E+01	4.70E+01
Calcium	3 : 3	100	1.10E+04	1.17E+04	1.30E+04
Chromium	3 : 3	100	1.90E+01	2.90E+01	3.80E+01
Cobalt	3 : 3	100	5.50E+00	9.83E+00	1.30E+01
Copper	3 : 3	100	1.60E+02	2.70E+02	4.10E+02
Iron	3 : 3	100	1.40E+04	2.07E+04	2.60E+04
Lead	3 : 3	100	1.10E+02	1.80E+02	3.20E+02
Magnesium	3 : 3	100	4.10E+03	5.40E+03	6.80E+03
Manganese	3 : 3	100	1.70E+02	3.03E+02	5.10E+02
Mercury	3 : 3	100	3.00E-01	6.17E-01	1.10E+00
Molybdenum	3 : 3	100	7.00E-01	1.72E+00	3.70E+00
Nickel	3 : 3	100	9.00E+01	2.20E+02	3.90E+02

Table 3-53
Creek Segment F Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)					
Potassium	3 : 3	100	1.60E+03	2.40E+03	2.90E+03
Vanadium	3 : 3	100	2.50E+01	3.90E+01	5.10E+01
Zinc	3 : 3	100	9.50E+02	2.08E+03	3.70E+03

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-54
Borrow Pit Lake Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Pesticides					
4,4'-DDE	3 : 3	100	1.11E-03	1.97E-03	3.20E-03
4,4'-DDT	2 : 3	67	1.14E-03	1.27E-03	1.40E-03
Alpha Chlordane	3 : 3	100	4.75E-04	1.62E-03	3.20E-03
Dieldrin	2 : 3	67	2.55E-04	3.78E-04	5.00E-04
Endosulfan I	3 : 3	100	3.80E-04	1.39E-03	2.80E-03
Endosulfan sulfate	2 : 3	67	9.40E-04	1.17E-03	1.40E-03
Endrin aldehyde	3 : 3	100	1.20E-03	1.58E-03	2.20E-03
Endrin ketone	1 : 3	33	7.15E-04	7.15E-04	7.15E-04
Gamma Chlordane	2 : 3	67	7.35E-04	1.87E-03	3.00E-03
gamma-BHC (Lindane)	1 : 3	33	1.60E-04	1.60E-04	1.60E-04
Heptachlor epoxide	1 : 3	33	2.00E-04	2.00E-04	2.00E-04
Herbicides					
2,4-D	2 : 3	67	6.10E-03	8.55E-03	1.10E-02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	1.48E-05	2.42E-05	3.54E-05
Metals					
Aluminum	3 : 3	100	1.10E+04	1.37E+04	1.60E+04
Antimony	2 : 3	67	1.50E+00	1.70E+00	1.90E+00
Arsenic	3 : 3	100	1.30E+01	1.55E+01	1.70E+01
Barium	3 : 3	100	2.40E+02	3.48E+02	4.20E+02
Beryllium	3 : 3	100	5.80E-01	7.13E-01	8.20E-01
Cadmium	3 : 3	100	1.60E+00	2.08E+00	2.70E+00
Calcium	3 : 3	100	1.10E+04	1.45E+04	1.65E+04
Chromium	3 : 3	100	1.80E+01	2.17E+01	2.60E+01
Cobalt	3 : 3	100	7.10E+00	8.92E+00	1.00E+01
Copper	3 : 3	100	3.60E+01	4.85E+01	6.40E+01
Iron	3 : 3	100	2.80E+04	3.38E+04	3.80E+04
Lead	3 : 3	100	3.40E+01	4.78E+01	5.80E+01
Magnesium	3 : 3	100	3.60E+03	4.67E+03	5.60E+03
Manganese	3 : 3	100	9.40E+02	1.20E+03	1.40E+03
Mercury	3 : 3	100	1.01E-01	1.24E-01	1.60E-01
Molybdenum	3 : 3	100	3.70E-01	5.95E-01	9.20E-01
Nickel	3 : 3	100	3.50E+01	4.72E+01	5.40E+01
Potassium	3 : 3	100	1.50E+03	1.95E+03	2.20E+03
Silver	1 : 3	33	7.90E-01	7.90E-01	7.90E-01
Vanadium	3 : 3	100	2.80E+01	3.48E+01	4.00E+01
Zinc	3 : 3	100	2.50E+02	3.08E+02	3.70E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
TEF - Toxicity Equivalency Factor.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-54
Borrow Pit Lake Broad-Scan Sediment Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-55
Prairie du Pont Creek Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Acetone	2 : 2	100	4.10E-02	4.40E-02	4.70E-02
Toluene	1 : 2	50	6.40E-03	6.40E-03	6.40E-03
Dioxin					
Dioxin TEQ-HH	2 : 2	100	5.66E-06	6.03E-06	6.40E-06
Metals					
Aluminum	2 : 2	100	9.80E+03	1.09E+04	1.20E+04
Arsenic	2 : 2	100	7.00E+00	7.10E+00	7.20E+00
Barium	2 : 2	100	1.35E+02	1.38E+02	1.40E+02
Beryllium	2 : 2	100	4.80E-01	5.20E-01	5.60E-01
Calcium	2 : 2	100	3.65E+03	4.48E+03	5.30E+03
Chromium	2 : 2	100	1.50E+01	1.60E+01	1.70E+01
Cobalt	2 : 2	100	6.70E+00	7.13E+00	7.55E+00
Copper	2 : 2	100	1.40E+01	1.43E+01	1.45E+01
Iron	2 : 2	100	1.60E+04	1.65E+04	1.70E+04
Lead	2 : 2	100	1.55E+01	1.58E+01	1.60E+01
Magnesium	2 : 2	100	2.70E+03	2.80E+03	2.90E+03
Manganese	2 : 2	100	4.30E+02	5.18E+02	6.05E+02
Mercury	2 : 2	100	2.30E-02	2.40E-02	2.50E-02
Molybdenum	2 : 2	100	4.50E-01	5.40E-01	6.30E-01
Nickel	2 : 2	100	1.50E+01	1.58E+01	1.65E+01
Potassium	2 : 2	100	1.20E+03	1.28E+03	1.35E+03
Sodium	2 : 2	100	7.55E+01	8.38E+01	9.20E+01
Vanadium	2 : 2	100	2.50E+01	2.80E+01	3.10E+01
Zinc	2 : 2	100	5.80E+01	5.95E+01	6.10E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-56
Reference Area Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
2-Butanone (MEK)	3 : 4	75	1.10E-02	2.17E-02	4.00E-02
Acetone	3 : 4	75	3.80E-02	8.33E-02	1.60E-01
Herbicides					
2,4-D	1 : 4	25	1.20E-02	1.20E-02	1.20E-02
Pentachlorophenol	1 : 4	25	1.90E-03	1.90E-03	1.90E-03
Dioxin					
Dioxin TEQ-HH	4 : 4	100	6.73E-06	7.83E-06	9.02E-06
Metals					
Aluminum	4 : 4	100	1.20E+04	1.45E+04	1.90E+04
Antimony	2 : 4	50	1.00E+00	1.15E+00	1.30E+00
Arsenic	4 : 4	100	6.70E+00	7.17E+00	8.00E+00
Barium	4 : 4	100	1.65E+02	2.06E+02	2.30E+02
Beryllium	4 : 4	100	6.20E-01	7.80E-01	1.00E+00
Cadmium	4 : 4	100	2.90E-01	4.15E-01	6.50E-01
Calcium	4 : 4	100	1.20E+04	1.35E+04	1.80E+04
Chromium	4 : 4	100	1.70E+01	2.00E+01	2.50E+01
Cobalt	4 : 4	100	7.10E+00	8.60E+00	1.00E+01
Copper	4 : 4	100	1.60E+01	1.90E+01	2.30E+01
Iron	4 : 4	100	1.75E+04	2.06E+04	2.40E+04
Lead	4 : 4	100	1.65E+01	2.19E+01	2.60E+01
Magnesium	4 : 4	100	3.25E+03	5.14E+03	6.50E+03
Manganese	4 : 4	100	5.70E+02	7.08E+02	7.70E+02
Mercury	4 : 4	100	4.00E-02	4.80E-02	6.30E-02
Molybdenum	4 : 4	100	3.70E-01	4.45E-01	5.30E-01
Nickel	4 : 4	100	1.75E+01	2.14E+01	2.60E+01
Potassium	4 : 4	100	1.60E+03	2.10E+03	2.60E+03
Vanadium	4 : 4	100	2.95E+01	3.49E+01	4.40E+01
Zinc	4 : 4	100	5.90E+01	8.30E+01	9.60E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-57
Site M Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs					
Benzene	1 : 1	100	1.70E-02	1.70E-02	1.70E-02
Carbon Disulfide	1 : 1	100	4.90E-02	4.90E-02	4.90E-02
Chlorobenzene	1 : 1	100	1.00E-01	1.00E-01	1.00E-01
SVOCs					
4-Chloroaniline	1 : 1	100	2.40E+00	2.40E+00	2.40E+00
Benzo(a)anthracene	1 : 1	100	1.30E+00	1.30E+00	1.30E+00
Benzo(a)pyrene	1 : 1	100	1.50E+00	1.50E+00	1.50E+00
Benzo(b)fluoranthene	1 : 1	100	1.50E+00	1.50E+00	1.50E+00
Benzo(g,h,i)perylene	1 : 1	100	1.30E+00	1.30E+00	1.30E+00
Benzo(k)fluoranthene	1 : 1	100	1.80E+00	1.80E+00	1.80E+00
Bis(2-ethylhexyl)phthalate	1 : 1	100	1.40E+00	1.40E+00	1.40E+00
Chrysene	1 : 1	100	1.60E+00	1.60E+00	1.60E+00
Fluoranthene	1 : 1	100	3.00E+00	3.00E+00	3.00E+00
Napthalene	1 : 1	100	1.10E+00	1.10E+00	1.10E+00
Pentachlorophenol	1 : 1	100	5.20E-02	5.20E-02	5.20E-02
Phenanthrene	1 : 1	100	1.30E+00	1.30E+00	1.30E+00
Pyrene	1 : 1	100	2.20E+00	2.20E+00	2.20E+00
PCBs					
Total PCBs	1 : 1	100	1.22E+01	1.22E+01	1.22E+01
Pesticides					
4,4'-DDE	1 : 1	100	1.10E-01	1.10E-01	1.10E-01
4,4'-DDE	1 : 1	100	4.40E-02	4.40E-02	4.40E-02
Aldrin	1 : 1	100	1.20E-01	1.20E-01	1.20E-01
Endosulfan sulfate	1 : 1	100	5.00E-02	5.00E-02	5.00E-02
Endrin ketone	1 : 1	100	2.00E-01	2.00E-01	2.00E-01
Gamma Chlordane	1 : 1	100	1.40E-01	1.40E-01	1.40E-01
Heptachlor	1 : 1	100	5.90E-02	5.90E-02	5.90E-02
Dioxin					
Dioxin TEQ-HH	1 : 1	100	4.00E-03	4.00E-03	4.00E-03
Metals					
Aluminum	1 : 1	100	8.90E+03	8.90E+00	8.90E+00
Antimony	1 : 1	100	6.60E+00	6.60E+00	6.60E+00
Arsenic	1 : 1	100	3.50E+01	3.50E+01	3.50E+01
Barium	1 : 1	100	7.00E+02	7.00E+02	7.00E+02
Cadmium	1 : 1	100	1.70E+01	1.70E+01	1.70E+01
Calcium	1 : 1	100	1.00E+05	1.00E+05	1.00E+05
Chromium	1 : 1	100	4.80E+01	4.80E+01	4.80E+01
Cobalt	1 : 1	100	1.50E+01	1.50E+01	1.50E+01
Copper	1 : 1	100	4.20E+03	4.20E+03	4.20E+03
Iron	1 : 1	100	3.40E+04	3.40E+04	3.40E+04
Lead	1 : 1	100	5.30E+02	5.30E+02	5.30E+02
Magnesium	1 : 1	100	7.40E+03	7.40E+03	7.40E+03
Manganese	1 : 1	100	3.70E+02	3.70E+02	3.70E+02
Mercury	1 : 1	100	1.00E+00	1.00E+00	1.00E+00
Molybdenum	1 : 1	100	1.70E+01	1.70E+01	1.70E+01

Table 3-57
Site M Broad-Scan Sediment Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
Metals (cont.)					
Nickel	1 : 1	100	1.90E+02	1.90E+02	1.90E+02
Potassium	1 : 1	100	2.00E+03	2.00E+03	2.00E+03
Selenium	1 : 1	100	3.80E+00	3.80E+00	3.80E+00
Silver	1 : 1	100	7.30E+00	7.30E+00	7.30E+00
Vanadium	1 : 1	100	4.50E+01	4.50E+01	4.50E+01
Zinc	1 : 1	100	2.40E+03	2.40E+03	2.40E+03

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-58
Site M Bottom Soil TCLP Extraction and Analysis Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (ug/L)	Mean (c) (ug/L)	Maximum (c) (ug/L)
VOCs			**(mg/l)**	**(mg/l)**	**(mg/l)**
Benzene	3 : 4	75	1.10E-03	1.17E-03	1.20E-03
Chlorobenzene	4 : 4	100	1.20E-03	5.94E-02	1.50E-01
Trichloroethene	3 : 4	100	1.20E-03	1.01E-02	2.10E-02
SVOCs			**(mg/l)**	**(mg/l)**	**(mg/l)**
1,4-Dichlorobenzene	4 : 4	100	9.50E-03	1.54E-02	3.10E-02
PCBs			**(mg/kg)**	**(mg/kg)**	**(mg/kg)**
Total PCBs	3 : 4	75	4.31E+01	4.76E+01	5.20E+01
Dioxin			**(mg/l)**	**(mg/l)**	**(mg/l)**
Dioxin TEQ	4 : 4	100	2.13E-06	5.70E-05	2.63E-04
Metals			**(mg/l)**	**(mg/l)**	**(mg/l)**
Arsenic	1 : 4	25	3.30E-01	3.30E-01	3.30E-01
Barium	4 : 4	100	1.80E+00	2.08E+00	2.30E+00

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-59
Background Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Hexanone	1 : 3	33	1.80E-02	1.80E-02	1.80E-02
Methylene chloride (Dichloromethane)	2 : 3	67	1.70E-03	6.85E-03	1.20E-02
SVOCs					
Anthracene	1 : 3	33	8.00E-02	8.00E-02	8.00E-02
Benzo(a)anthracene	2 : 3	67	7.70E-02	1.24E-01	1.70E-01
Benzo(a)pyrene	2 : 3	67	7.00E-02	1.10E-01	1.50E-01
Benzo(b)fluoranthene	2 : 3	67	6.90E-02	8.95E-02	1.10E-01
Benzo(g,h,i)perylene	2 : 3	67	4.50E-02	6.35E-02	8.20E-02
Benzo(k)fluoranthene	2 : 3	67	6.00E-02	1.00E-01	1.40E-01
bis(2-Ethylhexyl)phthalate	2 : 3	67	1.10E-01	2.65E-01	4.20E-01
Carbazole	1 : 3	33	3.20E-02	3.20E-02	3.20E-02
Chrysene	2 : 3	67	9.70E-02	1.49E-01	2.00E-01
Diethylphthalate	3 : 3	100	6.00E-02	9.33E-02	1.10E-01
Di-n-butylphthalate	2 : 3	67	1.30E-01	1.85E-01	2.40E-01
Fluoranthene	2 : 3	67	2.00E-01	3.20E-01	4.40E-01
Phenanthrene	2 : 3	67	1.00E-01	1.95E-01	2.90E-01
Pyrene	2 : 3	67	1.80E-01	2.70E-01	3.60E-01
Pesticides					
4,4'-DDE	1 : 3	33	2.00E-02	2.00E-02	2.00E-02
4,4'-DDT	1 : 3	33	1.70E-02	1.70E-02	1.70E-02
Herbicides					
2,4,5-TP (Silvex)	3 : 3	100	5.80E-03	9.93E-03	1.30E-02
MCPA	3 : 3	100	4.30E+00	7.25E+00	1.30E+01
MCPP	3 : 3	100	2.50E+00	4.98E+00	6.55E+00
Pentachlorophenol	2 : 3	67	2.10E-02	3.30E-02	4.50E-02
PCBs					
Total PCBs	2 : 3	67	1.40E-01	9.23E-01	1.71E+00
Dioxin					
Dioxin TEQ-HH	3 : 3	100	9.46E-06	7.66E-05	2.03E-04
Metals					
Aluminum	3 : 3	100	8.10E+03	1.27E+04	1.90E+04
Antimony	1 : 3	33	1.90E+00	1.90E+00	1.90E+00
Arsenic	3 : 3	100	6.60E+00	9.57E+00	1.30E+01
Barium	3 : 3	100	1.10E+02	1.82E+02	2.35E+02
Beryllium	3 : 3	100	4.50E-01	7.53E-01	1.10E+00
Cadmium	3 : 3	100	5.20E-01	4.32E+00	9.40E+00
Calcium	3 : 3	100	4.00E+03	1.68E+04	4.00E+04
Chromium	3 : 3	100	1.70E+01	1.97E+01	2.50E+01
Cobalt	3 : 3	100	5.50E+00	7.77E+00	1.04E+01
Copper	3 : 3	100	3.50E+01	1.05E+02	1.90E+02
Iron	3 : 3	100	1.50E+04	1.90E+04	2.50E+04
Lead	3 : 3	100	2.40E+01	9.25E+01	1.80E+02
Magnesium	3 : 3	100	3.20E+03	8.62E+03	1.70E+04
Manganese	3 : 3	100	3.90E+02	4.42E+02	5.35E+02
Mercury	3 : 3	100	4.40E-02	8.87E-02	1.40E-01
Molybdenum	3 : 3	100	7.20E-01	1.01E+00	1.40E+00

Table 3-59
Background Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Nickel	3 : 3	100	1.50E+01	2.13E+01	2.80E+01
Potassium	3 : 3	100	1.30E+03	2.37E+03	3.50E+03
Silver	2 : 3	67	3.25E-01	7.13E-01	1.10E+00
Sodium	1 : 3	33	7.50E+02	7.50E+02	7.50E+02
Vanadium	3 : 3	100	2.80E+01	3.45E+01	4.45E+01
Zinc	3 : 3	100	8.20E+01	4.04E+02	8.20E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-60
Background Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Acetone	1 : 3	33	5.50E-03	5.50E-03	5.50E-03
Methylene chloride (Dichloromethane)	1 : 3	33	1.40E-03	1.40E-03	1.40E-03
SVOCs					
Benzo(a)anthracene	1 : 3	33	2.60E-02	2.60E-02	2.60E-02
Benzo(g,h,i)perylene	1 : 3	33	3.40E-02	3.40E-02	3.40E-02
Chrysene	1 : 3	33	4.20E-02	4.20E-02	4.20E-02
Diethylphthalate	2 : 3	67	6.30E-02	8.65E-02	1.10E-01
Fluoranthene	1 : 3	33	4.20E-02	4.20E-02	4.20E-02
Herbicides					
2,4,5-TP (Silvex)	1 : 3	33	5.80E-03	5.80E-03	5.80E-03
MCPP	2 : 3	67	2.90E+00	2.95E+00	3.00E+00
Dioxin					
Dioxin TEQ-HH	2 : 3	67	3.33E-07	1.09E-06	1.85E-06
Metals					
Aluminum	3 : 3	100	8.40E+03	1.01E+04	1.20E+04
Antimony	1 : 3	33	1.20E+00	1.20E+00	1.20E+00
Arsenic	3 : 3	100	6.80E+00	8.70E+00	1.20E+01
Barium	3 : 3	100	1.70E+02	1.87E+02	2.00E+02
Beryllium	3 : 3	100	5.00E-01	6.33E-01	7.20E-01
Cadmium	3 : 3	100	1.10E-01	3.44E+00	8.90E+00
Calcium	3 : 3	100	3.80E+03	8.07E+03	1.20E+04
Chromium	3 : 3	100	1.30E+01	1.63E+01	1.80E+01
Cobalt	3 : 3	100	6.40E+00	6.97E+00	7.70E+00
Copper	3 : 3	100	1.10E+01	7.73E+01	1.80E+02
Iron	3 : 3	100	1.40E+04	1.67E+04	1.80E+04
Lead	3 : 3	100	8.50E+00	7.12E+01	1.60E+02
Magnesium	3 : 3	100	3.10E+03	4.67E+03	5.70E+03
Manganese	3 : 3	100	3.70E+02	4.00E+02	4.20E+02
Mercury	3 : 3	100	4.10E-03	2.80E-02	6.00E-02
Molybdenum	3 : 3	100	5.00E-01	8.73E-01	1.50E+00
Nickel	3 : 3	100	1.60E+01	1.87E+01	2.00E+01
Potassium	3 : 3	100	1.80E+03	2.10E+03	2.30E+03
Silver	1 : 3	33	9.80E-01	9.80E-01	9.80E-01
Sodium	1 : 3	33	4.10E+02	4.10E+02	4.10E+02
Vanadium	3 : 3	100	2.50E+01	2.90E+01	3.10E+01
Zinc	3 : 3	100	4.20E+01	3.21E+02	7.70E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-60
Background Subsurface Soil Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-61
UAS Transect 1 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Hexanone	1 : 7	14	6.60E-03	6.60E-03	6.60E-03
Acetone	2 : 7	29	3.50E-01	3.95E-01	4.40E-01
Benzene	1 : 7	14	3.00E-03	3.00E-03	3.00E-03
Chlorobenzene	1 : 7	14	4.00E-03	4.00E-03	4.00E-03
Toluene	1 : 7	14	3.20E-03	3.20E-03	3.20E-03
Trichloroethene	3 : 7	43	3.80E-03	4.67E-03	6.20E-03
SVOCs					
Fluoranthene	1 : 7	14	3.70E-02	3.70E-02	3.70E-02
Pesticides					
4,4'-DDE	5 : 7	71	8.60E-05	2.33E-04	4.00E-04
4,4'-DDT	5 : 7	71	6.50E-05	3.07E-04	7.00E-04
Dieldrin	2 : 7	29	8.90E-05	1.14E-04	1.40E-04
Endosulfan sulfate	4 : 7	57	9.30E-05	2.61E-04	4.50E-04
Endrin ketone	7 : 7	100	1.20E-04	2.66E-04	4.90E-04
Heptachlor epoxide	6 : 7	86	6.40E-05	1.86E-04	3.50E-04
Methoxychlor	5 : 7	71	1.20E-03	2.06E-03	2.90E-03
Herbicides					
Dicamba	2 : 7	29	1.80E-03	2.10E-03	2.40E-03
MCPA	4 : 7	57	2.70E+00	5.05E+00	7.40E+00
Pentachlorophenol	7 : 7	100	1.30E-03	3.29E-03	6.60E-03
PCBs					
Total PCBs	7 : 7	100	9.60E-02	1.35E-01	2.44E-01
Dioxin					
Dioxin TEQ-HH	2 : 2	100	3.17E-06	4.68E-06	6.18E-06
Metals					
Aluminum	7 : 7	100	6.25E+03	1.13E+04	1.50E+04
Antimony	7 : 7	100	9.00E-01	1.97E+00	2.60E+00
Arsenic	7 : 7	100	5.75E+00	8.14E+00	1.00E+01
Barium	7 : 7	100	1.65E+02	2.02E+02	2.40E+02
Beryllium	7 : 7	100	4.15E-01	6.95E-01	9.40E-01
Cadmium	7 : 7	100	1.70E+00	2.96E+00	4.80E+00
Calcium	7 : 7	100	4.20E+03	5.63E+03	8.70E+03
Chromium	7 : 7	100	1.15E+01	2.16E+01	4.90E+01
Cobalt	7 : 7	100	4.95E+00	7.22E+00	9.20E+00
Copper	7 : 7	100	7.65E+01	1.52E+02	2.30E+02
Iron	7 : 7	100	1.15E+04	1.71E+04	2.20E+04
Lead	7 : 7	100	4.00E+01	7.61E+01	1.20E+02
Magnesium	7 : 7	100	4.10E+03	4.48E+03	5.30E+03
Manganese	7 : 7	100	1.90E+02	3.65E+02	5.50E+02
Mercury	7 : 7	100	3.10E-02	6.12E-02	9.90E-02
Molybdenum	7 : 7	100	3.50E-01	5.16E-01	8.60E-01
Nickel	7 : 7	100	1.40E+01	2.03E+01	2.50E+01
Potassium	7 : 7	100	1.40E+03	2.24E+03	2.80E+03
Selenium	2 : 7	29	7.20E-01	7.65E-01	8.10E-01
Silver	6 : 7	86	2.10E-01	3.50E-01	5.90E-01
Thallium	1 : 7	14	8.00E-01	8.00E-01	8.00E-01

Table 3-61
UAS Transect 1 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Vanadium	7 : 7	100	2.05E+01	3.16E+01	4.10E+01
Zinc	7 : 7	100	1.80E+02	4.44E+02	1.40E+03

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-62
UAS Transect 1 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Methylene chloride (Dichloromethane)	1 : 7	14	2.40E-03	2.40E-03	2.40E-03
Trichloroethene	3 : 7	43	2.80E-03	5.03E-03	7.40E-03
SVOCs					
bis(2-Ethylhexyl)phthalate	2 : 7	29	6.90E-02	1.35E-01	2.00E-01
Pesticides					
4,4'-DDE	2 : 7	29	1.40E-04	1.80E-04	2.20E-04
4,4'-DDT	1 : 7	14	2.70E-04	2.70E-04	2.70E-04
Alpha Chlordane	1 : 7	14	1.60E-04	1.60E-04	1.60E-04
Dieldrin	1 : 7	14	1.20E-04	1.20E-04	1.20E-04
Endrin ketone	2 : 7	29	1.80E-04	2.25E-04	2.70E-04
Heptachlor epoxide	3 : 7	43	5.70E-05	1.82E-04	3.50E-04
Methoxychlor	2 : 7	29	1.60E-03	2.10E-03	2.60E-03
PCBs					
Total PCBs	3 : 7	43	1.90E-02	1.96E-02	2.01E-02
Metals					
Aluminum	7 : 7	100	3.80E+03	8.39E+03	1.70E+04
Antimony	5 : 7	71	5.90E-01	6.86E-01	8.40E-01
Arsenic	7 : 7	100	4.00E+00	6.19E+00	8.70E+00
Barium	7 : 7	100	1.40E+02	2.00E+02	2.60E+02
Beryllium	7 : 7	100	2.50E-01	5.08E-01	9.30E-01
Cadmium	6 : 7	86	1.00E-01	2.95E-01	5.30E-01
Calcium	7 : 7	100	1.04E+04	1.41E+04	1.80E+04
Chromium	7 : 7	100	7.80E+00	1.41E+01	2.50E+01
Cobalt	7 : 7	100	4.30E+00	6.39E+00	1.10E+01
Copper	7 : 7	100	4.00E+00	1.42E+01	2.40E+01
Iron	7 : 7	100	8.70E+03	1.38E+04	2.20E+04
Lead	7 : 7	100	5.40E+00	1.02E+01	1.50E+01
Magnesium	7 : 7	100	4.40E+03	6.34E+03	8.30E+03
Manganese	7 : 7	100	1.70E+02	3.86E+02	9.80E+02
Mercury	7 : 7	100	5.90E-03	2.74E-02	7.00E-02
Molybdenum	7 : 7	100	2.00E-01	4.04E-01	7.60E-01
Nickel	7 : 7	100	1.10E+01	1.75E+01	3.30E+01
Potassium	7 : 7	100	7.60E+02	1.58E+03	2.70E+03
Vanadium	7 : 7	100	1.40E+01	2.52E+01	4.50E+01
Zinc	7 : 7	100	2.80E+01	7.71E+01	2.50E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-62
UAS Transect 1 Floodplain Subsurface Soil Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-63
UAS Transect 2 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	4 : 6	67	2.20E-02	2.77E-02	3.40E-02
2-Hexanone	1 : 6	17	4.80E-03	4.80E-03	4.80E-03
Acetone	4 : 6	67	2.20E-01	3.48E-01	4.50E-01
SVOCs					
Benzo(a)anthracene	1 : 6	17	7.20E-02	7.20E-02	7.20E-02
Benzo(a)pyrene	1 : 6	17	7.20E-02	7.20E-02	7.20E-02
Benzo(b)fluoranthene	1 : 6	17	7.20E-02	7.20E-02	7.20E-02
Benzo(g,h,i)perylene	1 : 6	17	4.00E-02	4.00E-02	4.00E-02
Benzo(k)fluoranthene	1 : 6	17	5.30E-02	5.30E-02	5.30E-02
bis(2-Ethylhexyl)phthalate	1 : 6	17	9.40E-02	9.40E-02	9.40E-02
Chrysene	1 : 6	17	8.90E-02	8.90E-02	8.90E-02
Fluoranthene	1 : 6	17	1.50E-01	1.50E-01	1.50E-01
Phenanthrene	1 : 6	17	6.10E-02	6.10E-02	6.10E-02
Pyrene	1 : 6	17	1.20E-01	1.20E-01	1.20E-01
Pesticides					
4,4'-DDE	3 : 6	50	2.40E-04	3.80E-04	4.80E-04
4,4'-DDT	4 : 6	67	1.40E-04	4.52E-04	6.10E-04
Endosulfan sulfate	3 : 6	50	1.10E-04	3.30E-04	4.70E-04
Endrin ketone	4 : 6	67	1.30E-04	5.95E-04	1.30E-03
Gamma Chlordane	1 : 6	17	2.00E-04	2.00E-04	2.00E-04
Heptachlor epoxide	2 : 6	33	1.50E-04	1.70E-04	1.90E-04
Methoxychlor	2 : 6	33	1.30E-03	4.30E-03	7.30E-03
Herbicides					
Dicamba	1 : 6	17	3.10E-03	3.10E-03	3.10E-03
MCPA	1 : 6	17	5.50E+00	5.50E+00	5.50E+00
MCPP	1 : 6	17	7.60E+00	7.60E+00	7.60E+00
Pentachlorophenol	2 : 6	33	1.40E-03	1.50E-03	1.60E-03
PCBs					
Total PCBs	6 : 6	100	3.70E-02	9.32E-02	1.64E-01
Dioxin					
Dioxin TEQ-HH	1 : 1	100	1.02E-05	1.02E-05	1.02E-05
Metals					
Aluminum	6 : 6	100	9.80E+03	1.30E+04	1.80E+04
Antimony	6 : 6	100	6.70E-01	1.28E+00	1.70E+00
Arsenic	6 : 6	100	6.60E+00	8.15E+00	1.00E+01
Barium	6 : 6	100	1.60E+02	1.98E+02	2.30E+02
Beryllium	4 : 6	67	6.20E-01	8.45E-01	1.10E+00
Cadmium	6 : 6	100	1.90E+00	2.40E+00	2.80E+00
Calcium	6 : 6	100	3.50E+03	5.10E+03	8.80E+03
Chromium	6 : 6	100	1.50E+01	1.87E+01	2.50E+01
Cobalt	6 : 6	100	6.50E+00	8.03E+00	1.10E+01
Copper	6 : 6	100	6.90E+01	9.25E+01	1.40E+02
Iron	6 : 6	100	1.50E+04	1.85E+04	2.40E+04
Lead	6 : 6	100	4.80E+01	6.57E+01	7.90E+01
Magnesium	6 : 6	100	3.40E+03	4.38E+03	5.20E+03
Manganese	6 : 6	100	3.40E+02	4.68E+02	6.90E+02

Table 3-63
UAS Transect 2 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Mercury	6 : 6	100	4.50E-02	6.10E-02	7.70E-02
Molybdenum	6 : 6	100	4.60E-01	7.65E-01	1.30E+00
Nickel	6 : 6	100	1.80E+01	2.17E+01	2.70E+01
Potassium	6 : 6	100	1.70E+03	2.67E+03	3.80E+03
Selenium	2 : 6	33	6.10E-01	8.05E-01	1.00E+00
Silver	6 : 6	100	2.30E-01	3.07E-01	4.10E-01
Thallium	2 : 6	33	7.30E-01	8.65E-01	1.00E+00
Vanadium	6 : 6	100	2.80E+01	3.37E+01	4.60E+01
Zinc	6 : 6	100	1.90E+02	2.53E+02	3.10E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-64
UAS Transect 2 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
SVOCs					
bis(2-Ethylhexyl)phthalate	5 : 6	83	4.50E-02	9.02E-02	1.60E-01
Dioxin					
Dioxin TEQ-HH	1 : 1	100	5.01E-05	5.01E-05	5.01E-05
Metals					
Aluminum	6 : 6	100	4.50E+03	6.65E+03	1.10E+04
Antimony	1 : 6	17	6.70E-01	6.70E-01	6.70E-01
Arsenic	6 : 6	100	4.00E+00	5.03E+00	7.00E+00
Barium	6 : 6	100	1.40E+02	1.82E+02	2.20E+02
Beryllium	1 : 6	17	3.70E-01	3.70E-01	3.70E-01
Cadmium	6 : 6	100	1.10E-01	2.03E-01	3.20E-01
Calcium	6 : 6	100	9.20E+03	1.30E+04	1.50E+04
Chromium	6 : 6	100	8.60E+00	1.08E+01	1.50E+01
Cobalt	6 : 6	100	4.60E+00	5.58E+00	8.30E+00
Copper	6 : 6	100	5.90E+00	9.97E+00	1.60E+01
Iron	6 : 6	100	9.10E+03	1.13E+04	1.60E+04
Lead	6 : 6	100	6.40E+00	8.58E+00	1.20E+01
Magnesium	6 : 6	100	4.30E+03	5.70E+03	6.80E+03
Manganese	6 : 6	100	1.70E+02	2.63E+02	4.80E+02
Mercury	6 : 6	100	5.80E-03	1.38E-02	2.90E-02
Molybdenum	6 : 6	100	1.90E-01	5.52E-01	7.70E-01
Nickel	6 : 6	100	1.10E+01	1.35E+01	2.00E+01
Potassium	6 : 6	100	8.70E+02	1.36E+03	2.00E+03
Selenium	1 : 6	17	5.10E-01	5.10E-01	5.10E-01
Vanadium	6 : 6	100	1.50E+01	2.00E+01	2.80E+01
Zinc	6 : 6	100	3.00E+01	4.13E+01	5.70E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-65
UAS Transect 3 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	6 : 7	86	2.50E-02	3.65E-02	4.70E-02
2-Hexanone	1 : 7	14	6.90E-03	6.90E-03	6.90E-03
Acetone	6 : 7	86	2.80E-01	4.93E-01	6.70E-01
Benzene	1 : 7	14	2.10E-03	2.10E-03	2.10E-03
Toluene	3 : 7	43	2.50E-03	3.90E-03	5.30E-03
SVOCs					
Anthracene	1 : 7	14	5.10E-02	5.10E-02	5.10E-02
Benzo(a)anthracene	2 : 7	29	2.30E-02	2.52E-01	4.80E-01
Benzo(a)pyrene	1 : 7	14	8.60E-01	8.60E-01	8.60E-01
Benzo(b)fluoranthene	3 : 7	43	2.70E-02	3.42E-01	9.70E-01
Benzo(g,h,i)perylene	2 : 7	29	4.90E-02	4.40E-01	8.30E-01
Benzo(k)fluoranthene	1 : 7	14	1.00E+00	1.00E+00	1.00E+00
bis(2-Ethylhexyl)phthalate	1 : 7	14	6.10E-02	6.10E-02	6.10E-02
Carbazole	1 : 7	14	8.80E-02	8.80E-02	8.80E-02
Chrysene	4 : 7	57	2.80E-02	2.69E-01	9.80E-01
Dibenzo(a,h)anthracene	1 : 7	14	2.50E-01	2.50E-01	2.50E-01
Fluoranthene	3 : 7	43	3.70E-02	5.29E-01	1.50E+00
Indeno(1,2,3-cd)pyrene	1 : 7	14	6.90E-01	6.90E-01	6.90E-01
Phenanthrene	1 : 7	14	5.30E-01	5.30E-01	5.30E-01
Pyrene	1 : 7	14	1.40E+00	1.40E+00	1.40E+00
Pesticides					
4,4'-DDE	3 : 7	43	1.10E-04	1.63E-04	2.40E-04
4,4'-DDT	2 : 7	29	4.00E-04	5.72E-04	7.45E-04
beta-BHC	1 : 7	14	7.50E-04	7.50E-04	7.50E-04
Dieldrin	1 : 7	14	2.60E-04	2.60E-04	2.60E-04
Endrin ketone	2 : 7	29	1.70E-04	4.60E-04	7.50E-04
Gamma Chlordane	1 : 7	14	1.80E-04	1.80E-04	1.80E-04
Methoxychlor	1 : 7	14	2.60E-03	2.60E-03	2.60E-03
Herbicides					
2,4-DB	1 : 7	14	4.10E-02	4.10E-02	4.10E-02
MCPA	2 : 7	29	1.80E+00	2.90E+00	4.00E+00
MCPP	2 : 7	29	4.40E+00	6.05E+00	7.70E+00
Pentachlorophenol	1 : 7	14	1.30E-03	1.30E-03	1.30E-03
PCBs					
Total PCBs	6 : 7	86	3.00E-02	8.05E-02	1.16E-01
Dioxin					
Dioxin TEQ-HH	1 : 1	100	3.27E-06	3.27E-06	3.27E-06
Metals					
Aluminum	7 : 7	100	3.30E+03	1.07E+04	1.70E+04
Antimony	4 : 7	57	9.00E-01	1.28E+00	1.90E+00
Arsenic	7 : 7	100	2.60E+00	6.29E+00	9.40E+00
Barium	7 : 7	100	4.00E+01	1.66E+02	2.20E+02
Beryllium	6 : 7	86	1.80E-01	7.38E-01	1.10E+00
Cadmium	7 : 7	100	1.50E+00	2.38E+00	3.80E+00
Calcium	7 : 7	100	3.50E+03	4.05E+04	2.50E+05
Chromium	7 : 7	100	1.10E+01	1.61E+01	2.30E+01

Table 3-65
UAS Transect 3 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Cobalt	7 : 7	100	2.30E+00	6.70E+00	1.00E+01
Copper	7 : 7	100	4.80E+01	6.44E+01	7.90E+01
Iron	7 : 7	100	4.10E+03	1.49E+04	2.20E+04
Lead	7 : 7	100	3.55E+01	4.98E+01	6.40E+01
Magnesium	7 : 7	100	3.00E+03	6.33E+03	1.80E+04
Manganese	7 : 7	100	1.20E+02	3.72E+02	6.10E+02
Mercury	7 : 7	100	4.20E-02	6.49E-02	9.30E-02
Molybdenum	7 : 7	100	3.80E-01	8.12E-01	1.40E+00
Nickel	7 : 7	100	1.40E+01	1.87E+01	2.60E+01
Potassium	7 : 7	100	1.20E+03	2.38E+03	3.70E+03
Selenium	2 : 7	29	6.00E-01	1.90E+00	3.20E+00
Silver	1 : 7	14	3.80E-01	3.80E-01	3.80E-01
Vanadium	7 : 7	100	1.30E+01	2.85E+01	4.20E+01
Zinc	7 : 7	100	1.59E+02	2.83E+02	4.60E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-66
UAS Transect 3 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	1 : 7	14	2.40E-02	2.40E-02	2.40E-02
Acetone	1 : 7	14	1.80E-01	1.80E-01	1.80E-01
SVOCs					
Benzo(g,h,i)perylene	1 : 7	14	5.30E-02	5.30E-02	5.30E-02
bis(2-Ethylhexyl)phthalate	1 : 7	14	1.20E-01	1.20E-01	1.20E-01
PCBs					
Total PCBs	1 : 7	14	9.50E-03	9.50E-03	9.50E-03
Dioxin					
Dioxin TEQ-HH	1 : 1	100	2.10E-08	2.10E-08	2.10E-08
Metals					
Aluminum	7 : 7	100	2.10E+03	8.34E+03	1.40E+04
Antimony	4 : 7	57	6.70E-01	7.58E-01	7.90E-01
Arsenic	7 : 7	100	1.90E+00	5.59E+00	8.50E+00
Barium	7 : 7	100	4.50E+01	1.81E+02	2.50E+02
Beryllium	2 : 7	29	7.30E-01	8.10E-01	8.90E-01
Cadmium	6 : 7	86	1.70E-01	3.36E-01	5.70E-01
Calcium	7 : 7	100	2.40E+03	1.10E+04	1.80E+04
Chromium	7 : 7	100	5.60E+00	1.34E+01	2.10E+01
Cobalt	7 : 7	100	2.80E+00	6.11E+00	8.10E+00
Copper	7 : 7	100	2.80E+00	1.27E+01	1.90E+01
Iron	7 : 7	100	5.00E+03	1.35E+04	1.90E+04
Lead	7 : 7	100	4.50E+00	1.06E+01	1.70E+01
Magnesium	7 : 7	100	1.70E+03	5.72E+03	7.70E+03
Manganese	7 : 7	100	9.20E+01	2.99E+02	5.50E+02
Mercury	7 : 7	100	2.90E-03	2.73E-02	7.80E-02
Molybdenum	7 : 7	100	2.50E-01	5.78E-01	9.50E-01
Nickel	7 : 7	100	7.40E+00	1.57E+01	2.20E+01
Potassium	7 : 7	100	4.90E+02	1.75E+03	2.70E+03
Vanadium	7 : 7	100	7.70E+00	2.37E+01	3.80E+01
Zinc	7 : 7	100	2.40E+01	8.11E+01	2.60E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-67
UAS Transect 4 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
SVOCs					
2-Methylnaphthalene	2 : 7	29	3.30E-02	5.25E-02	7.20E-02
Acenaphthene	4 : 7	57	5.70E-02	3.85E-01	1.20E+00
Acenaphthylene	3 : 7	43	2.40E-02	4.93E-02	7.50E-02
Anthracene	5 : 7	71	3.00E-02	6.33E-01	2.30E+00
Benzo(a)anthracene	7 : 7	100	3.40E-02	9.52E-01	4.30E+00
Benzo(a)pyrene	4 : 7	57	2.80E-01	1.37E+00	3.50E+00
Benzo(b)fluoranthene	4 : 7	57	2.40E-01	1.35E+00	3.50E+00
Benzo(g,h,i)perylene	3 : 7	43	4.10E-01	1.08E+00	2.20E+00
Benzo(k)fluoranthene	4 : 7	57	2.30E-01	1.20E+00	3.30E+00
Carbazole	4 : 7	57	6.20E-02	3.28E-01	1.00E+00
Chrysene	7 : 7	100	3.50E-02	9.78E-01	4.40E+00
Dibenzo(a,h)anthracene	1 : 7	14	8.10E-01	8.10E-01	8.10E-01
Dibenzofuran	3 : 7	43	4.50E-02	3.12E-01	7.70E-01
Fluoranthene	7 : 7	100	4.10E-02	2.20E+00	1.00E+01
Fluorene	4 : 7	57	4.40E-02	4.32E-01	1.40E+00
Indeno(1,2,3-cd)pyrene	3 : 7	43	3.10E-01	9.57E-01	2.00E+00
Naphthalene	2 : 7	29	4.10E-02	5.45E-02	6.80E-02
Phenanthrene	6 : 7	86	7.50E-02	2.16E+00	9.20E+00
Pyrene	6 : 7	86	1.60E-01	2.17E+00	8.50E+00
Pesticides					
4,4'-DDE	3 : 7	43	9.00E-04	1.20E-03	1.50E-03
4,4'-DDT	4 : 7	57	9.20E-04	1.78E-03	3.00E-03
Alpha Chlordane	4 : 7	57	1.00E-03	1.82E-03	3.10E-03
beta-BHC	4 : 7	57	1.00E-04	6.63E-04	1.30E-03
delta-BHC	1 : 7	14	2.40E-04	2.40E-04	2.40E-04
Dieldrin	5 : 7	71	1.60E-03	3.92E-03	1.00E-02
Endrin ketone	3 : 7	43	1.30E-03	2.53E-03	4.00E-03
Gamma Chlordane	4 : 7	57	9.60E-04	3.09E-03	6.60E-03
Heptachlor	2 : 7	29	3.40E-04	4.90E-04	6.40E-04
Heptachlor epoxide	3 : 7	43	1.90E-04	1.08E-03	2.30E-03
Methoxychlor	4 : 7	57	9.30E-04	5.73E-03	9.70E-03
Herbicides					
Pentachlorophenol	7 : 7	100	2.05E-03	9.15E-03	4.00E-02
PCBs					
Total PCBs	3 : 7	43	2.46E-02	4.29E-02	5.80E-02
Dioxin					
Dioxin TEQ-HH	2 : 2	100	5.93E-06	8.65E-06	1.14E-05
Metals					
Aluminum	7 : 7	100	5.10E+03	8.53E+03	1.00E+04
Arsenic	7 : 7	100	3.40E+00	5.71E+00	8.00E+00
Barium	7 : 7	100	7.70E+01	2.99E+02	1.20E+03
Beryllium	7 : 7	100	2.70E-01	5.17E-01	6.50E-01
Cadmium	7 : 7	100	4.60E-01	1.24E+00	2.30E+00
Calcium	7 : 7	100	6.00E+03	6.98E+04	1.50E+05
Chromium	7 : 7	100	1.10E+01	1.76E+01	2.90E+01
Cobalt	7 : 7	100	3.40E+00	5.52E+00	6.80E+00

Table 3-67
UAS Transect 4 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Copper	7 : 7	100	2.55E+01	6.48E+01	1.80E+02
Iron	7 : 7	100	7.70E+03	1.40E+04	1.90E+04
Lead	7 : 7	100	2.80E+01	1.12E+02	2.60E+02
Magnesium	7 : 7	100	3.90E+03	9.20E+03	2.10E+04
Manganese	7 : 7	100	1.80E+02	3.75E+02	4.40E+02
Mercury	7 : 7	100	2.70E-02	1.39E-01	5.70E-01
Molybdenum	7 : 7	100	3.20E-01	1.11E+00	2.30E+00
Nickel	7 : 7	100	1.20E+01	1.66E+01	1.90E+01
Potassium	7 : 7	100	1.20E+03	1.67E+03	2.10E+03
Silver	1 : 7	14	2.40E-01	2.40E-01	2.40E-01
Vanadium	7 : 7	100	1.50E+01	2.40E+01	2.90E+01
Zinc	7 : 7	100	7.60E+01	2.14E+02	5.50E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-68
UAS Transect 4 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	1 : 7	14	5.70E-03	5.70E-03	5.70E-03
Acetone	3 : 7	43	7.20E-03	4.31E-02	8.60E-02
SVOCs					
2-Methylnaphthalene	1 : 7	14	1.60E-01	1.60E-01	1.60E-01
Acenaphthene	1 : 7	14	1.00E+00	1.00E+00	1.00E+00
Acenaphthylene	1 : 7	14	7.20E-01	7.20E-01	7.20E-01
Anthracene	2 : 7	29	2.60E-02	2.71E+00	5.40E+00
Benzo(a)anthracene	4 : 7	57	3.30E-02	3.04E+00	1.20E+01
Benzo(a)pyrene	1 : 7	14	5.60E+00	5.60E+00	5.60E+00
Benzo(b)fluoranthene	1 : 7	14	9.80E+00	9.80E+00	9.80E+00
Benzo(g,h,i)perylene	1 : 7	14	3.30E-01	3.30E-01	3.30E-01
Benzo(k)fluoranthene	1 : 7	14	6.30E+00	6.30E+00	6.30E+00
bis(2-Ethylhexyl)phthalate	1 : 7	14	8.70E+00	8.70E+00	8.70E+00
Carbazole	1 : 7	14	8.20E-01	8.20E-01	8.20E-01
Chrysene	4 : 7	57	3.90E-02	2.79E+00	1.10E+01
Dibenzo(a,h)anthracene	1 : 7	14	1.90E+00	1.90E+00	1.90E+00
Dibenzofuran	1 : 7	14	1.10E+00	1.10E+00	1.10E+00
Fluoranthene	3 : 7	43	5.40E-02	7.74E+00	2.30E+01
Fluorene	1 : 7	14	2.00E+00	2.00E+00	2.00E+00
Indeno(1,2,3-cd)pyrene	1 : 7	14	3.50E+00	3.50E+00	3.50E+00
Naphthalene	1 : 7	14	6.40E-02	6.40E-02	6.40E-02
Phenanthrene	3 : 7	43	3.60E-02	4.71E+00	1.40E+01
Pyrene	3 : 7	43	5.60E-02	6.06E+00	1.80E+01
Pesticides					
beta-BHC	1 : 7	14	1.40E-04	1.40E-04	1.40E-04
Dieldrin	1 : 7	14	1.30E-03	1.30E-03	1.30E-03
Methoxychlor	1 : 7	14	7.60E-03	7.60E-03	7.60E-03
Herbicides					
2,4,5-TP (Silvex)	1 : 7	14	1.50E-03	1.50E-03	1.50E-03
Pentachlorophenol	4 : 7	57	1.80E-03	3.60E-03	5.90E-03
PCBs					
Total PCBs	4 : 7	57	1.71E-02	3.72E-02	5.39E-02
Dioxin					
Dioxin TEQ-HH	1 : 2	50	1.80E-08	1.80E-08	1.80E-08
Metals					
Aluminum	7 : 7	100	3.30E+03	6.50E+03	9.00E+03
Arsenic	7 : 7	100	3.30E+00	4.79E+00	6.00E+00
Barium	7 : 7	100	8.75E+01	1.55E+02	2.10E+02
Beryllium	7 : 7	100	1.95E-01	3.74E-01	5.00E-01
Cadmium	4 : 7	57	1.30E-01	4.50E-01	1.00E+00
Calcium	7 : 7	100	6.45E+03	3.00E+04	1.30E+05
Chromium	7 : 7	100	1.00E+01	1.33E+01	1.70E+01
Cobalt	7 : 7	100	4.20E+00	4.95E+00	5.90E+00
Copper	7 : 7	100	3.70E+00	1.26E+01	3.00E+01
Iron	7 : 7	100	7.85E+03	1.13E+04	1.60E+04
Lead	7 : 7	100	6.45E+00	3.02E+01	1.30E+02

Table 3-68
UAS Transect 4 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Magnesium	7 : 7	100	2.90E+03	6.41E+03	1.10E+04
Manganese	7 : 7	100	1.35E+02	2.52E+02	3.50E+02
Mercury	7 : 7	100	5.30E-03	1.66E-02	3.90E-02
Molybdenum	7 : 7	100	1.70E-01	3.80E-01	7.60E-01
Nickel	7 : 7	100	1.20E+01	1.44E+01	1.80E+01
Potassium	7 : 7	100	6.35E+02	1.30E+03	1.70E+03
Sodium	1 : 7	14	3.80E+02	3.80E+02	3.80E+02
Vanadium	7 : 7	100	1.20E+01	2.01E+01	2.60E+01
Zinc	7 : 7	100	2.65E+01	6.71E+01	1.90E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-69
UAS Transect 5 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	4 : 6	67	1.40E-02	2.27E-02	3.40E-02
Acetone	4 : 6	67	1.60E-01	2.42E-01	4.60E-01
SVOCs					
Benzo(a)anthracene	3 : 6	50	3.60E-02	6.83E-02	9.60E-02
Benzo(a)pyrene	1 : 6	17	1.30E-01	1.30E-01	1.30E-01
Benzo(b)fluoranthene	3 : 6	50	8.60E-02	9.80E-02	1.15E-01
Benzo(g,h,i)perylene	1 : 6	17	1.30E-01	1.30E-01	1.30E-01
Benzo(k)fluoranthene	1 : 6	17	1.40E-01	1.40E-01	1.40E-01
bis(2-Ethylhexyl)phthalate	1 : 6	17	5.30E-02	5.30E-02	5.30E-02
Chrysene	3 : 6	50	4.90E-02	1.10E-01	1.60E-01
Dibenzo(a,h)anthracene	2 : 6	33	4.80E-02	1.04E-01	1.60E-01
Diethylphthalate	1 : 6	17	3.90E-02	3.90E-02	3.90E-02
Di-n-butylphthalate	1 : 6	17	3.20E-02	3.20E-02	3.20E-02
Fluoranthene	2 : 6	33	2.00E-01	2.23E-01	2.45E-01
Indeno(1,2,3-cd)pyrene	3 : 6	50	7.90E-02	1.20E-01	1.90E-01
Phenanthrene	3 : 6	50	2.30E-02	6.40E-02	9.50E-02
Pyrene	2 : 6	33	1.60E-01	1.75E-01	1.90E-01
Pesticides					
4,4'-DDE	1 : 6	17	3.60E-04	3.60E-04	3.60E-04
4,4'-DDT	1 : 6	17	3.50E-04	3.50E-04	3.50E-04
Alpha Chlordane	1 : 6	17	1.60E-04	1.60E-04	1.60E-04
beta-BHC	1 : 6	17	1.00E-04	1.00E-04	1.00E-04
Endrin aldehyde	2 : 6	33	2.40E-04	4.25E-04	6.10E-04
Endrin ketone	1 : 6	17	3.90E-04	3.90E-04	3.90E-04
Heptachlor epoxide	1 : 6	17	9.10E-05	9.10E-05	9.10E-05
Methoxychlor	2 : 6	33	1.30E-03	1.65E-03	2.00E-03
Herbicides					
Dicamba	1 : 6	17	2.90E-03	2.90E-03	2.90E-03
MCPA	2 : 6	33	2.90E+00	3.65E+00	4.40E+00
MCPP	6 : 6	100	2.20E+00	4.05E+00	6.80E+00
Pentachlorophenol	2 : 6	33	1.60E-03	2.00E-03	2.40E-03
PCBs					
Total PCBs	6 : 6	100	2.69E-02	9.73E-02	1.73E-01
Dioxin					
Dioxin TEQ-HH	1 : 1	100	4.41E-06	4.41E-06	4.41E-06
Metals					
Aluminum	6 : 6	100	7.65E+03	9.63E+03	1.10E+04
Antimony	3 : 6	50	6.20E-01	7.18E-01	9.05E-01
Arsenic	6 : 6	100	6.00E+00	6.72E+00	7.60E+00
Barium	6 : 6	100	1.70E+02	1.79E+02	1.90E+02
Beryllium	6 : 6	100	5.20E-01	5.76E-01	6.60E-01
Cadmium	6 : 6	100	2.30E+00	3.43E+00	8.40E+00
Calcium	6 : 6	100	3.80E+03	7.90E+03	2.05E+04
Chromium	6 : 6	100	1.40E+01	1.59E+01	1.85E+01
Cobalt	6 : 6	100	5.40E+00	6.11E+00	6.90E+00
Copper	6 : 6	100	3.80E+01	5.04E+01	8.45E+01

Table 3-69
UAS Transect 5 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Iron	6 : 6	100	1.30E+04	1.46E+04	1.60E+04
Lead	6 : 6	100	4.50E+01	7.13E+01	1.70E+02
Magnesium	6 : 6	100	3.00E+03	3.88E+03	5.00E+03
Manganese	6 : 6	100	2.80E+02	3.48E+02	3.90E+02
Mercury	6 : 6	100	4.90E-02	6.62E-02	1.15E-01
Molybdenum	6 : 6	100	2.20E-01	4.03E-01	6.80E-01
Nickel	6 : 6	100	1.50E+01	1.71E+01	1.90E+01
Potassium	6 : 6	100	1.50E+03	1.85E+03	2.40E+03
Selenium	1 : 6	17	4.80E-01	4.80E-01	4.80E-01
Silver	1 : 6	17	5.45E-01	5.45E-01	5.45E-01
Vanadium	6 : 6	100	2.50E+01	2.73E+01	2.90E+01
Zinc	6 : 6	100	2.30E+02	3.58E+02	9.80E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-70
UAS Transect 5 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	1 : 6	17	1.30E-02	1.30E-02	1.30E-02
Acetone	1 : 6	17	1.40E-01	1.40E-01	1.40E-01
Benzene	1 : 6	17	9.80E-04	9.80E-04	9.80E-04
Toluene	1 : 6	17	1.80E-03	1.80E-03	1.80E-03
SVOCs					
Benzo(b)fluoranthene	1 : 6	17	5.50E-02	5.50E-02	5.50E-02
bis(2-Ethylhexyl)phthalate	3 : 6	50	1.20E-01	1.20E-01	1.20E-01
Dibenzo(a,h)anthracene	1 : 6	17	1.40E-01	1.40E-01	1.40E-01
Di-n-octylphthalate	1 : 6	17	1.40E-01	1.40E-01	1.40E-01
Indeno(1,2,3-cd)pyrene	1 : 6	17	1.30E-01	1.30E-01	1.30E-01
Herbicides					
MCPA	1 : 6	17	2.30E+00	2.30E+00	2.30E+00
MCPP	2 : 6	33	2.90E+00	2.90E+00	2.90E+00
Dioxin					
Dioxin TEQ-HH	1 : 1	100	1.05E-07	1.05E-07	1.05E-07
Metals					
Aluminum	6 : 6	100	4.80E+03	6.78E+03	9.60E+03
Arsenic	6 : 6	100	3.50E+00	4.99E+00	6.40E+00
Barium	6 : 6	100	9.30E+01	1.66E+02	2.10E+02
Beryllium	6 : 6	100	2.80E-01	3.98E-01	5.60E-01
Cadmium	6 : 6	100	8.40E-02	1.92E-01	3.30E-01
Calcium	6 : 6	100	3.50E+03	1.28E+04	1.90E+04
Chromium	6 : 6	100	1.05E+01	1.39E+01	2.00E+01
Cobalt	6 : 6	100	3.90E+00	5.04E+00	6.10E+00
Copper	6 : 6	100	5.70E+00	9.38E+00	1.60E+01
Iron	6 : 6	100	8.50E+03	1.13E+04	1.50E+04
Lead	6 : 6	100	6.20E+00	8.06E+00	1.10E+01
Magnesium	6 : 6	100	2.60E+03	5.37E+03	7.40E+03
Manganese	6 : 6	100	1.40E+02	2.39E+02	3.20E+02
Mercury	6 : 6	100	1.00E-02	2.90E-02	8.60E-02
Molybdenum	5 : 6	83	1.60E-01	2.06E-01	2.50E-01
Nickel	6 : 6	100	1.20E+01	1.43E+01	1.70E+01
Potassium	6 : 6	100	9.50E+02	1.32E+03	1.80E+03
Vanadium	6 : 6	100	1.60E+01	2.05E+01	2.60E+01
Zinc	6 : 6	100	3.10E+01	4.11E+01	5.60E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-70
UAS Transect 5 Floodplain Subsurface Soil Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-71
UAS Transect 6 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
SVOCs					
Acenaphthene	1 : 5	20	1.60E-02	1.60E-02	1.60E-02
Anthracene	2 : 5	40	3.20E-02	3.35E-02	3.50E-02
Benzo(a)anthracene	5 : 5	100	2.50E-02	9.54E-02	1.60E-01
Benzo(b)fluoranthene	5 : 5	100	3.40E-02	9.98E-02	1.60E-01
bis(2-Ethylhexyl)phthalate	1 : 5	20	2.90E-02	2.90E-02	2.90E-02
Chrysene	5 : 5	100	3.00E-02	1.20E-01	2.00E-01
Dibenzo(a,h)anthracene	2 : 5	40	2.60E-02	4.75E-02	6.90E-02
Fluoranthene	5 : 5	100	4.20E-02	2.04E-01	3.60E-01
Indeno(1,2,3-cd)pyrene	3 : 5	60	5.10E-02	9.03E-02	1.10E-01
Phenanthrene	4 : 5	80	5.50E-02	1.19E-01	1.60E-01
Pyrene	4 : 5	80	9.70E-02	2.12E-01	3.10E-01
Pesticides					
4,4'-DDD	1 : 5	20	6.40E-03	6.40E-03	6.40E-03
4,4'-DDE	3 : 5	60	7.80E-04	1.13E-02	1.80E-02
4,4'-DDT	3 : 5	60	1.60E-03	9.05E-02	1.40E-01
Alpha Chlordane	1 : 5	20	5.00E-04	5.00E-04	5.00E-04
Dieldrin	1 : 5	20	1.80E-03	1.80E-03	1.80E-03
Gamma Chlordane	1 : 5	20	9.40E-04	9.40E-04	9.40E-04
Herbicides					
MCPP	1 : 5	20	4.50E+00	4.50E+00	4.50E+00
Pentachlorophenol	3 : 5	60	2.90E-03	5.80E-03	9.90E-03
PCBs					
Total PCBs	4 : 5	80	5.91E-02	1.43E-01	3.85E-01
Dioxin					
Dioxin TEQ-HH	1 : 1	100	1.59E-05	1.59E-05	1.59E-05
Metals					
Aluminum	5 : 5	100	7.50E+03	8.80E+03	9.70E+03
Antimony	3 : 5	60	6.50E-01	7.20E-01	7.70E-01
Arsenic	5 : 5	100	4.00E+00	6.00E+00	9.20E+00
Barium	5 : 5	100	8.90E+01	1.46E+02	1.90E+02
Beryllium	4 : 5	80	4.90E-01	5.98E-01	8.60E-01
Cadmium	5 : 5	100	8.10E-01	1.02E+00	1.60E+00
Calcium	5 : 5	100	1.00E+04	6.64E+04	1.40E+05
Chromium	5 : 5	100	1.30E+01	1.50E+01	1.80E+01
Cobalt	5 : 5	100	4.00E+00	6.24E+00	9.20E+00
Copper	5 : 5	100	1.80E+01	2.36E+01	3.10E+01
Iron	5 : 5	100	1.00E+04	1.42E+04	1.90E+04
Lead	5 : 5	100	2.90E+01	4.34E+01	7.80E+01
Magnesium	5 : 5	100	4.90E+03	9.58E+03	1.80E+04
Manganese	5 : 5	100	3.10E+02	4.22E+02	6.60E+02
Mercury	5 : 5	100	3.90E-02	5.78E-02	8.60E-02
Molybdenum	5 : 5	100	2.80E-01	9.86E-01	3.20E+00
Nickel	5 : 5	100	1.30E+01	1.72E+01	2.30E+01
Potassium	5 : 5	100	1.30E+03	1.80E+03	2.40E+03
Selenium	1 : 5	20	6.80E-01	6.80E-01	6.80E-01
Vanadium	5 : 5	100	2.40E+01	2.84E+01	3.30E+01

Table 3-71
UAS Transect 6 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Zinc	5 : 5	100	8.20E+01	1.10E+02	1.60E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-72
UAS Transect 6 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Hexanone	1 : 5	20	3.50E-03	3.50E-03	3.50E-03
Toluene	1 : 5	20	2.80E-03	2.80E-03	2.80E-03
SVOCs					
Acenaphthene	2 : 5	40	4.10E-02	1.01E-01	1.60E-01
Acenaphthylene	1 : 5	20	4.90E-02	4.90E-02	4.90E-02
Anthracene	3 : 5	60	6.60E-02	1.73E-01	3.60E-01
Benzo(a)anthracene	4 : 5	80	3.30E-02	3.53E-01	9.40E-01
Benzo(a)pyrene	2 : 5	40	2.70E-01	5.75E-01	8.80E-01
Benzo(b)fluoranthene	3 : 5	60	1.50E-01	3.50E-01	6.40E-01
Benzo(g,h,i)perylene	1 : 5	20	6.30E-01	6.30E-01	6.30E-01
Benzo(k)fluoranthene	2 : 5	40	2.20E-01	6.60E-01	1.10E+00
bis(2-Ethylhexyl)phthalate	3 : 5	60	1.20E-01	1.70E-01	2.70E-01
Carbazole	2 : 5	40	3.60E-02	1.03E-01	1.70E-01
Chrysene	4 : 5	80	4.20E-02	4.06E-01	1.10E+00
Dibenzo(a,h)anthracene	2 : 5	40	9.20E-02	1.81E-01	2.70E-01
Dibenzofuran	1 : 5	20	1.20E-01	1.20E-01	1.20E-01
Fluoranthene	4 : 5	80	7.90E-02	8.97E-01	2.50E+00
Fluorene	2 : 5	40	3.60E-02	8.30E-02	1.30E-01
Indeno(1,2,3-cd)pyrene	3 : 5	60	1.00E-01	2.73E-01	5.70E-01
Naphthalene	2 : 5	40	4.10E-02	4.50E-02	4.90E-02
Phenanthrene	4 : 5	80	5.70E-02	6.67E-01	1.90E+00
Pyrene	3 : 5	60	3.10E-01	1.06E+00	2.30E+00
Herbicides					
MCPP	1 : 5	20	3.00E+00	3.00E+00	3.00E+00
Pentachlorophenol	2 : 5	40	1.40E-03	2.95E-03	4.50E-03
PCBs					
Total PCBs	1 : 5	20	4.30E-03	4.30E-03	4.30E-03
Dioxin					
Dioxin TEQ-HH	1 : 1	100	1.92E-06	1.92E-06	1.92E-06
Metals					
Aluminum	5 : 5	100	6.60E+03	9.08E+03	1.20E+04
Antimony	2 : 5	40	1.10E+00	1.85E+00	2.60E+00
Arsenic	5 : 5	100	5.50E+00	6.36E+00	7.80E+00
Barium	5 : 5	100	1.80E+02	1.94E+02	2.20E+02
Beryllium	5 : 5	100	4.30E-01	5.32E-01	6.30E-01
Cadmium	5 : 5	100	2.30E-01	6.46E-01	9.60E-01
Calcium	5 : 5	100	1.70E+04	3.18E+04	6.40E+04
Chromium	5 : 5	100	1.20E+01	1.68E+01	2.10E+01
Cobalt	5 : 5	100	5.10E+00	6.80E+00	8.60E+00
Copper	5 : 5	100	1.20E+01	2.34E+01	3.50E+01
Iron	5 : 5	100	1.20E+04	1.50E+04	1.80E+04
Lead	5 : 5	100	8.30E+00	1.13E+02	2.40E+02
Magnesium	5 : 5	100	4.80E+03	5.80E+03	6.90E+03
Manganese	5 : 5	100	2.70E+02	3.54E+02	4.00E+02
Mercury	5 : 5	100	2.50E-02	7.34E-02	1.90E-01
Molybdenum	5 : 5	100	2.70E-01	7.16E-01	1.10E+00

Table 3-72
UAS Transect 6 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Nickel	5 : 5	100	1.40E+01	1.84E+01	2.40E+01
Potassium	5 : 5	100	1.20E+03	1.50E+03	2.00E+03
Vanadium	5 : 5	100	2.10E+01	2.68E+01	3.30E+01
Zinc	5 : 5	100	4.50E+01	1.04E+02	1.60E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-73
UAS Transect 7 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	3 : 7	43	9.10E-03	2.20E-02	3.70E-02
Acetone	3 : 7	43	6.80E-02	2.79E-01	5.00E-01
Benzene	1 : 7	14	2.10E-03	2.10E-03	2.10E-03
Carbon disulfide	1 : 7	14	2.70E-03	2.70E-03	2.70E-03
Toluene	2 : 7	29	3.40E-03	7.70E-03	1.20E-02
Trichloroethene	1 : 7	14	2.60E-03	2.60E-03	2.60E-03
SVOCs					
2-Methylnaphthalene	1 : 7	14	6.50E-02	6.50E-02	6.50E-02
Anthracene	1 : 7	14	4.10E-02	4.10E-02	4.10E-02
Benzo(a)anthracene	7 : 7	100	3.60E-02	9.72E-02	3.60E-01
Benzo(a)pyrene	7 : 7	100	4.40E-02	1.07E-01	3.60E-01
Benzo(b)fluoranthene	7 : 7	100	4.00E-02	1.25E-01	4.30E-01
Benzo(g,h,i)perylene	7 : 7	100	4.00E-02	9.31E-02	2.70E-01
Benzo(k)fluoranthene	7 : 7	100	3.70E-02	8.84E-02	3.10E-01
bis(2-Ethylhexyl)phthalate	3 : 7	43	4.20E-02	5.33E-02	6.40E-02
Butylbenzylphthalate	1 : 7	14	5.80E-02	5.80E-02	5.80E-02
Carbazole	1 : 7	14	5.80E-02	5.80E-02	5.80E-02
Chrysene	7 : 7	100	4.80E-02	1.44E-01	5.30E-01
Dibenzo(a,h)anthracene	1 : 7	14	1.00E-01	1.00E-01	1.00E-01
Di-n-butylphthalate	7 : 7	100	4.00E-02	8.60E-02	1.70E-01
Fluoranthene	7 : 7	100	8.40E-02	2.42E-01	9.70E-01
Indeno(1,2,3-cd)pyrene	2 : 7	29	5.20E-02	1.51E-01	2.50E-01
Phenanthrene	7 : 7	100	3.70E-02	1.01E-01	4.30E-01
Pyrene	7 : 7	100	7.20E-02	1.82E-01	7.00E-01
Pesticides					
4,4'-DDE	6 : 7	86	3.00E-04	1.38E-02	5.40E-02
4,4'-DDT	5 : 7	71	1.10E-03	9.80E-03	2.90E-02
Dieldrin	2 : 7	29	2.70E-04	1.64E-03	3.00E-03
Endosulfan II	1 : 7	14	1.00E-03	1.00E-03	1.00E-03
Endrin ketone	4 : 7	57	1.70E-04	1.01E-03	1.90E-03
Gamma Chlordane	3 : 7	43	1.00E-04	1.03E-03	2.20E-03
Heptachlor epoxide	1 : 7	14	2.60E-04	2.60E-04	2.60E-04
Methoxychlor	4 : 7	57	9.90E-04	2.67E-03	4.20E-03
Herbicides					
Dicamba	1 : 7	14	2.65E-03	2.65E-03	2.65E-03
Pentachlorophenol	2 : 7	29	2.00E-03	2.40E-03	2.80E-03
PCBs					
Total PCBs	7 : 7	100	4.01E-02	6.02E-02	9.00E-02
Dioxin					
Dioxin TEQ-HH	1 : 1	100	2.95E-06	2.95E-06	2.95E-06
Metals					
Aluminum	7 : 7	100	6.90E+03	8.40E+03	1.20E+04
Antimony	1 : 7	14	7.30E-01	7.30E-01	7.30E-01
Arsenic	7 : 7	100	6.20E+00	1.08E+01	3.40E+01
Barium	7 : 7	100	1.30E+02	1.66E+02	2.00E+02
Beryllium	1 : 7	14	8.25E-01	8.25E-01	8.25E-01

Table 3-73
UAS Transect 7 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Cadmium	7 : 7	100	1.50E+00	3.19E+00	6.10E+00
Calcium	7 : 7	100	5.95E+03	1.21E+04	2.60E+04
Chromium	7 : 7	100	1.20E+01	1.45E+01	1.75E+01
Cobalt	7 : 7	100	6.00E+00	6.59E+00	7.80E+00
Copper	7 : 7	100	2.10E+01	4.64E+01	1.30E+02
Iron	7 : 7	100	1.30E+04	1.48E+04	1.75E+04
Lead	7 : 7	100	3.60E+01	6.79E+01	1.50E+02
Magnesium	7 : 7	100	2.80E+03	5.40E+03	1.10E+04
Manganese	7 : 7	100	2.70E+02	3.34E+02	4.35E+02
Mercury	7 : 7	100	4.40E-02	8.72E-02	1.60E-01
Molybdenum	6 : 7	86	6.50E-01	9.33E-01	1.80E+00
Nickel	7 : 7	100	1.50E+01	2.24E+01	5.50E+01
Potassium	7 : 7	100	1.60E+03	2.09E+03	2.85E+03
Selenium	6 : 7	86	4.90E-01	7.77E-01	1.10E+00
Silver	4 : 7	57	2.10E-01	3.23E-01	4.40E-01
Vanadium	7 : 7	100	2.10E+01	2.51E+01	3.25E+01
Zinc	7 : 7	100	1.50E+02	3.32E+02	6.40E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-74
UAS Transect 7 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	2 : 7	29	7.00E-03	9.50E-03	1.20E-02
Acetone	1 : 7	14	1.40E-01	1.40E-01	1.40E-01
Carbon disulfide	1 : 7	14	5.00E-03	5.00E-03	5.00E-03
Chlorobenzene	1 : 7	14	4.00E-03	4.00E-03	4.00E-03
SVOCs					
Benzo(a)anthracene	2 : 7	29	3.60E-02	3.65E-02	3.70E-02
Benzo(a)pyrene	2 : 7	29	3.40E-02	3.60E-02	3.80E-02
Benzo(b)fluoranthene	2 : 7	29	2.80E-02	3.25E-02	3.70E-02
Benzo(g,h,i)perylene	2 : 7	29	3.50E-02	3.55E-02	3.60E-02
Benzo(k)fluoranthene	1 : 7	14	3.60E-02	3.60E-02	3.60E-02
bis(2-Ethylhexyl)phthalate	6 : 7	86	7.50E-02	1.57E+00	7.60E+00
Chrysene	2 : 7	29	4.30E-02	4.55E-02	4.80E-02
Di-n-butylphthalate	6 : 7	86	4.55E-02	8.11E-02	1.20E-01
Fluoranthene	2 : 7	29	7.80E-02	7.95E-02	8.10E-02
Phenanthrene	2 : 7	29	3.10E-02	3.65E-02	4.20E-02
Pyrene	1 : 7	14	6.00E-02	6.00E-02	6.00E-02
Pesticides					
4,4'-DDE	2 : 7	29	3.40E-04	1.02E-03	1.70E-03
Herbicides					
Pentachlorophenol	2 : 7	29	1.80E-03	1.85E-03	1.90E-03
PCBs					
Total PCBs	1 : 7	14	8.40E-03	8.40E-03	8.40E-03
Dioxin					
Dioxin TEQ-HH	1 : 1	100	8.40E-08	8.40E-08	8.40E-08
Metals					
Aluminum	7 : 7	100	6.00E+03	9.39E+03	2.20E+04
Antimony	1 : 7	14	5.60E-01	5.60E-01	5.60E-01
Arsenic	7 : 7	100	4.50E+00	5.98E+00	1.10E+01
Barium	7 : 7	100	1.70E+02	1.99E+02	2.90E+02
Beryllium	1 : 7	14	1.20E+00	1.20E+00	1.20E+00
Cadmium	7 : 7	100	2.65E-01	1.11E+00	5.40E+00
Calcium	7 : 7	100	6.00E+03	1.24E+04	1.70E+04
Chromium	7 : 7	100	1.10E+01	2.27E+01	5.00E+01
Cobalt	7 : 7	100	5.10E+00	6.57E+00	1.10E+01
Copper	7 : 7	100	8.10E+00	1.43E+01	3.30E+01
Iron	7 : 7	100	1.10E+04	1.42E+04	2.60E+04
Lead	7 : 7	100	9.00E+00	1.63E+01	3.70E+01
Magnesium	7 : 7	100	4.30E+03	6.09E+03	7.10E+03
Manganese	7 : 7	100	2.20E+02	2.55E+02	3.00E+02
Mercury	7 : 7	100	1.50E-02	6.06E-02	2.90E-01
Molybdenum	4 : 7	57	4.50E-01	6.11E-01	7.85E-01
Nickel	7 : 7	100	1.30E+01	2.15E+01	4.20E+01
Potassium	7 : 7	100	1.30E+03	1.88E+03	4.00E+03
Sodium	1 : 7	14	1.50E+02	1.50E+02	1.50E+02
Vanadium	7 : 7	100	1.90E+01	2.59E+01	5.00E+01
Zinc	7 : 7	100	4.30E+01	3.05E+02	1.80E+03

Table 3-74
UAS Transect 7 Floodplain Subsurface Soil Data Summary

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-75
DAS Transect 1 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	2 : 3	67	1.90E-02	2.55E-02	3.20E-02
Acetone	3 : 3	100	2.40E-01	3.20E-01	3.90E-01
Carbon disulfide	1 : 3	33	2.60E-03	2.60E-03	2.60E-03
Methylene chloride (Dichloromethane)	2 : 3	67	1.80E-03	1.95E-03	2.10E-03
Toluene	1 : 3	33	2.30E-03	2.30E-03	2.30E-03
SVOCs					
bis(2-Ethylhexyl)phthalate	1 : 3	33	1.60E-01	1.60E-01	1.60E-01
Pesticides					
4,4'-DDE	2 : 3	67	4.00E-04	4.82E-04	5.65E-04
Dieldrin	1 : 3	33	1.50E-03	1.50E-03	1.50E-03
Herbicides					
2,4-D	1 : 3	33	3.60E-03	3.60E-03	3.60E-03
Dicamba	2 : 3	67	1.20E-03	1.45E-03	1.70E-03
Pentachlorophenol	2 : 3	67	2.10E-03	2.77E-03	3.45E-03
PCBs					
Total PCBs	3 : 3	100	2.80E-02	4.50E-02	7.20E-02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	6.15E-06	9.44E-06	1.56E-05
Metals					
Aluminum	3 : 3	100	5.80E+03	6.53E+03	7.80E+03
Arsenic	3 : 3	100	7.50E+00	8.00E+00	8.70E+00
Barium	3 : 3	100	1.20E+02	1.37E+02	1.60E+02
Beryllium	3 : 3	100	4.60E-01	4.77E-01	5.00E-01
Cadmium	3 : 3	100	1.70E+00	2.20E+00	3.00E+00
Calcium	3 : 3	100	5.10E+03	6.57E+03	7.80E+03
Chromium	3 : 3	100	1.10E+01	1.23E+01	1.40E+01
Cobalt	3 : 3	100	5.80E+00	6.50E+00	7.80E+00
Copper	3 : 3	100	7.30E+01	8.52E+01	9.75E+01
Iron	3 : 3	100	1.20E+04	1.33E+04	1.50E+04
Lead	3 : 3	100	5.00E+01	6.52E+01	9.55E+01
Magnesium	3 : 3	100	3.20E+03	4.22E+03	5.05E+03
Manganese	3 : 3	100	3.05E+02	3.65E+02	4.70E+02
Mercury	3 : 3	100	5.40E-02	6.53E-02	8.20E-02
Molybdenum	3 : 3	100	4.15E-01	4.72E-01	5.00E-01
Nickel	3 : 3	100	1.60E+01	1.75E+01	1.90E+01
Potassium	3 : 3	100	1.30E+03	1.43E+03	1.60E+03
Silver	3 : 3	100	2.80E-01	3.72E-01	4.95E-01
Thallium	3 : 3	100	7.90E-01	8.70E-01	9.80E-01
Vanadium	3 : 3	100	1.80E+01	2.07E+01	2.50E+01
Zinc	3 : 3	100	2.30E+02	2.58E+02	2.95E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.

Table 3-75
DAS Transect 1 Floodplain Surface Soil Data Summary

VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-76
DAS Transect 1 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	1 : 3	33	2.50E-02	2.50E-02	2.50E-02
Acetone	1 : 3	33	2.40E-01	2.40E-01	2.40E-01
Pesticides					
4,4'-DDD	1 : 3	33	5.30E-04	5.30E-04	5.30E-04
Dieldrin	1 : 3	33	1.20E-03	1.20E-03	1.20E-03
Heptachlor	1 : 3	33	2.60E-04	2.60E-04	2.60E-04
Herbicides					
Dicamba	1 : 3	33	1.30E-03	1.30E-03	1.30E-03
MCPA	1 : 3	33	1.70E+00	1.70E+00	1.70E+00
Dioxin					
Dioxin TEQ-HH	1 : 1	100	1.62E-07	1.62E-07	1.62E-07
Metals					
Aluminum	3 : 3	100	3.50E+03	4.97E+03	5.80E+03
Arsenic	3 : 3	100	3.80E+00	4.93E+00	5.90E+00
Barium	3 : 3	100	1.20E+02	1.50E+02	1.90E+02
Beryllium	3 : 3	100	2.40E-01	3.43E-01	4.00E-01
Cadmium	3 : 3	100	1.60E-01	2.47E-01	3.10E-01
Calcium	3 : 3	100	6.20E+03	1.03E+04	1.60E+04
Chromium	3 : 3	100	6.50E+00	8.70E+00	9.90E+00
Cobalt	3 : 3	100	4.10E+00	5.03E+00	5.70E+00
Copper	3 : 3	100	5.40E+00	9.80E+00	1.30E+01
Iron	3 : 3	100	8.30E+03	1.04E+04	1.20E+04
Lead	3 : 3	100	5.50E+00	8.03E+00	1.10E+01
Magnesium	3 : 3	100	4.10E+03	4.87E+03	6.10E+03
Manganese	3 : 3	100	2.40E+02	2.87E+02	3.50E+02
Molybdenum	3 : 3	100	2.70E-01	3.83E-01	4.70E-01
Nickel	3 : 3	100	1.10E+01	1.33E+01	1.50E+01
Potassium	3 : 3	100	7.50E+02	1.05E+03	1.30E+03
Vanadium	3 : 3	100	1.20E+01	1.57E+01	1.80E+01
Zinc	3 : 3	100	2.50E+01	3.73E+01	5.00E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-77
DAS Transect 2 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	2 : 3	67	1.20E-02	2.00E-02	2.80E-02
Acetone	2 : 3	67	2.00E-01	2.35E-01	2.70E-01
Methylene chloride (Dichloromethane)	1 : 3	33	2.00E-03	2.00E-03	2.00E-03
Toluene	1 : 3	33	3.40E-03	3.40E-03	3.40E-03
SVOCs					
Benzo(a)anthracene	1 : 3	33	4.60E-02	4.60E-02	4.60E-02
Benzo(a)pyrene	1 : 3	33	5.60E-02	5.60E-02	5.60E-02
Benzo(b)fluoranthene	2 : 3	67	3.20E-02	3.70E-02	4.20E-02
Benzo(k)fluoranthene	1 : 3	33	6.30E-02	6.30E-02	6.30E-02
bis(2-Ethylhexyl)phthalate	2 : 3	67	5.70E-02	5.90E-02	6.10E-02
Chrysene	2 : 3	67	2.90E-02	4.90E-02	6.90E-02
Di-n-butylphthalate	1 : 3	33	1.20E-01	1.20E-01	1.20E-01
Fluoranthene	1 : 3	33	1.10E-01	1.10E-01	1.10E-01
Phenanthrene	1 : 3	33	5.20E-02	5.20E-02	5.20E-02
Pyrene	1 : 3	33	1.00E-01	1.00E-01	1.00E-01
Pesticides					
4,4'-DDD	1 : 3	33	5.60E-04	5.60E-04	5.60E-04
4,4'-DDT	1 : 3	33	1.40E-02	1.40E-02	1.40E-02
Dieldrin	1 : 3	33	1.30E-03	1.30E-03	1.30E-03
Herbicides					
Dicamba	1 : 3	33	1.30E-03	1.30E-03	1.30E-03
MCPA	1 : 3	33	2.00E+00	2.00E+00	2.00E+00
Pentachlorophenol	2 : 3	67	1.40E-03	2.00E-03	2.60E-03
PCBs					
Total PCBs	2 : 3	67	1.20E-02	2.65E-02	4.10E-02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	2.76E-06	6.11E-06	1.20E-05
Metals					
Aluminum	3 : 3	100	7.20E+03	1.04E+04	1.30E+04
Arsenic	3 : 3	100	6.00E+00	7.53E+00	9.00E+00
Barium	3 : 3	100	1.60E+02	1.80E+02	1.90E+02
Beryllium	3 : 3	100	5.50E-01	6.77E-01	7.60E-01
Cadmium	3 : 3	100	1.10E+00	2.03E+00	2.60E+00
Calcium	3 : 3	100	1.10E+04	1.43E+04	1.60E+04
Chromium	3 : 3	100	1.30E+01	2.67E+01	4.80E+01
Cobalt	3 : 3	100	6.40E+00	7.20E+00	8.30E+00
Copper	3 : 3	100	5.30E+01	8.57E+01	1.10E+02
Iron	3 : 3	100	1.60E+04	2.00E+04	2.50E+04
Lead	3 : 3	100	2.40E+01	6.27E+01	8.80E+01
Magnesium	3 : 3	100	4.80E+03	6.70E+03	9.50E+03
Manganese	3 : 3	100	4.30E+02	7.30E+02	1.20E+03
Mercury	3 : 3	100	7.60E-02	8.53E-02	9.40E-02
Molybdenum	3 : 3	100	5.50E-01	7.70E-01	9.40E-01
Nickel	3 : 3	100	1.80E+01	2.20E+01	2.40E+01
Potassium	3 : 3	100	1.90E+03	2.27E+03	2.50E+03
Selenium	1 : 3	33	5.50E-01	5.50E-01	5.50E-01

Table 3-77
DAS Transect 2 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Silver	2 : 3	67	4.30E-01	4.55E-01	4.80E-01
Thallium	2 : 3	67	7.10E-01	1.00E+00	1.30E+00
Vanadium	3 : 3	100	2.40E+01	5.93E+01	1.20E+02
Zinc	3 : 3	100	1.40E+02	2.30E+02	2.90E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-78
DAS Transect 2 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	1 : 3	33	3.00E-02	3.00E-02	3.00E-02
Acetone	2 : 3	67	2.60E-02	1.03E-01	1.80E-01
Pesticides					
Dieldrin	1 : 3	33	4.10E-04	4.10E-04	4.10E-04
Dioxin					
Dioxin TEQ-HH	1 : 1	100	1.28E-07	1.28E-07	1.28E-07
Metals					
Aluminum	3 : 3	100	2.80E+03	3.52E+03	4.90E+03
Arsenic	3 : 3	100	3.40E+00	3.95E+00	5.00E+00
Barium	3 : 3	100	9.95E+01	1.27E+02	1.70E+02
Beryllium	3 : 3	100	1.90E-01	2.50E-01	3.60E-01
Cadmium	3 : 3	100	1.10E-01	1.73E-01	2.70E-01
Calcium	3 : 3	100	4.90E+03	8.60E+03	1.50E+04
Chromium	3 : 3	100	6.05E+00	7.15E+00	8.90E+00
Cobalt	3 : 3	100	4.00E+00	4.45E+00	5.30E+00
Copper	3 : 3	100	3.70E+00	5.98E+00	1.00E+01
Iron	3 : 3	100	7.75E+03	8.88E+03	1.10E+04
Lead	3 : 3	100	5.25E+00	6.28E+00	8.10E+00
Magnesium	3 : 3	100	3.25E+03	4.18E+03	5.80E+03
Manganese	3 : 3	100	1.40E+02	1.83E+02	2.50E+02
Molybdenum	3 : 3	100	1.60E-01	2.75E-01	4.20E-01
Nickel	3 : 3	100	1.00E+01	1.14E+01	1.40E+01
Potassium	3 : 3	100	5.80E+02	7.65E+02	1.10E+03
Thallium	1 : 3	33	6.30E-01	6.30E-01	6.30E-01
Vanadium	3 : 3	100	1.15E+01	1.32E+01	1.60E+01
Zinc	3 : 3	100	2.35E+01	2.82E+01	3.60E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-79
DAS Transect 3 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
SVOCs					
Anthracene	1 : 3	33	2.60E-02	2.60E-02	2.60E-02
Benzo(a)anthracene	3 : 3	100	3.50E-02	6.53E-02	8.20E-02
Benzo(a)pyrene	3 : 3	100	4.30E-02	6.83E-02	8.20E-02
Benzo(b)fluoranthene	3 : 3	100	4.50E-02	7.03E-02	8.40E-02
Benzo(g,h,i)perylene	3 : 3	100	3.80E-02	5.77E-02	7.50E-02
Benzo(k)fluoranthene	3 : 3	100	3.80E-02	6.07E-02	8.30E-02
bis(2-Ethylhexyl)phthalate	3 : 3	100	1.00E-01	2.17E-01	4.30E-01
Chrysene	3 : 3	100	4.60E-02	8.20E-02	1.00E-01
Fluoranthene	3 : 3	100	8.60E-02	1.65E-01	2.20E-01
Phenanthrene	3 : 3	100	2.40E-02	6.97E-02	9.30E-02
Pyrene	2 : 3	67	1.30E-01	1.45E-01	1.60E-01
Pesticides					
4,4'-DDE	2 : 3	67	9.20E-04	1.31E-03	1.70E-03
4,4'-DDT	2 : 3	67	1.30E-03	1.55E-03	1.80E-03
Alpha Chlordane	2 : 3	67	1.20E-03	3.50E-03	5.80E-03
Dieldrin	3 : 3	100	6.70E-04	8.77E-04	9.90E-04
Gamma Chlordane	2 : 3	67	1.50E-03	3.30E-03	5.10E-03
Herbicides					
Dicamba	2 : 3	67	1.60E-03	1.70E-03	1.80E-03
Pentachlorophenol	1 : 3	33	1.50E-03	1.50E-03	1.50E-03
PCBs					
Total PCBs	3 : 3	100	1.30E-02	1.87E-02	3.00E-02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	3.17E-06	3.80E-06	4.38E-06
Metals					
Aluminum	3 : 3	100	5.50E+03	6.63E+03	8.50E+03
Arsenic	3 : 3	100	6.20E+00	7.43E+00	9.70E+00
Barium	3 : 3	100	1.40E+02	1.63E+02	2.00E+02
Beryllium	3 : 3	100	4.10E-01	4.70E-01	5.90E-01
Cadmium	3 : 3	100	2.00E+00	2.23E+00	2.50E+00
Calcium	3 : 3	100	1.20E+04	1.47E+04	1.70E+04
Chromium	3 : 3	100	1.20E+01	1.57E+01	2.00E+01
Cobalt	3 : 3	100	5.40E+00	6.03E+00	7.10E+00
Copper	3 : 3	100	6.30E+01	6.83E+01	7.20E+01
Iron	3 : 3	100	1.20E+04	1.33E+04	1.60E+04
Lead	3 : 3	100	5.30E+01	6.53E+01	9.00E+01
Magnesium	3 : 3	100	5.30E+03	6.07E+03	7.30E+03
Manganese	3 : 3	100	3.60E+02	3.93E+02	4.20E+02
Mercury	3 : 3	100	5.00E-02	5.77E-02	6.80E-02
Molybdenum	3 : 3	100	3.70E-01	5.63E-01	7.10E-01
Nickel	3 : 3	100	1.60E+01	1.83E+01	2.30E+01
Potassium	3 : 3	100	1.30E+03	1.70E+03	2.10E+03
Silver	3 : 3	100	2.00E-01	2.70E-01	3.50E-01
Thallium	3 : 3	100	7.80E-01	1.03E+00	1.40E+00
Vanadium	3 : 3	100	2.00E+01	2.27E+01	2.50E+01
Zinc	3 : 3	100	2.20E+02	2.40E+02	2.60E+02

Table 3-79
DAS Transect 3 Floodplain Surface Soil Data Summary

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-80
DAS Transect 3 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
SVOCs					
Benzo(g,h,i)perylene	3 : 3	100	7.00E-02	8.57E-02	1.10E-01
bis(2-Ethylhexyl)phthalate	3 : 3	100	5.70E-02	7.23E-02	8.80E-02
Dibenzo(a,h)anthracene	1 : 3	33	8.70E-02	8.70E-02	8.70E-02
Indeno(1,2,3-cd)pyrene	1 : 3	33	9.20E-02	9.20E-02	9.20E-02
Herbicides					
Pentachlorophenol	2 : 3	67	1.70E-03	2.00E-03	2.30E-03
Metals					
Aluminum	3 : 3	100	3.30E+03	5.03E+03	6.10E+03
Arsenic	3 : 3	100	3.60E+00	4.80E+00	5.70E+00
Barium	3 : 3	100	1.70E+02	1.90E+02	2.00E+02
Beryllium	3 : 3	100	2.30E-01	3.57E-01	4.20E-01
Cadmium	3 : 3	100	1.50E-01	2.23E-01	2.80E-01
Calcium	3 : 3	100	1.30E+04	1.63E+04	1.90E+04
Chromium	3 : 3	100	6.80E+00	8.93E+00	1.00E+01
Cobalt	3 : 3	100	4.10E+00	5.13E+00	5.70E+00
Copper	3 : 3	100	4.40E+00	9.13E+00	1.20E+01
Iron	3 : 3	100	8.50E+03	1.08E+04	1.20E+04
Lead	3 : 3	100	5.50E+00	7.57E+00	8.90E+00
Magnesium	3 : 3	100	5.00E+03	6.03E+03	7.20E+03
Manganese	3 : 3	100	1.80E+02	2.67E+02	3.50E+02
Mercury	3 : 3	100	8.00E-03	1.67E-02	2.30E-02
Molybdenum	3 : 3	100	3.00E-01	4.13E-01	5.20E-01
Nickel	3 : 3	100	1.00E+01	1.33E+01	1.60E+01
Potassium	3 : 3	100	7.20E+02	1.14E+03	1.40E+03
Sodium	3 : 3	100	1.20E+02	1.47E+02	1.60E+02
Vanadium	3 : 3	100	1.30E+01	1.67E+01	1.90E+01
Zinc	3 : 3	100	2.60E+01	3.50E+01	4.10E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-81
DAS Transect 4 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	1 : 3	33	2.45E-02	2.45E-02	2.45E-02
Acetone	2 : 3	67	2.95E-01	3.78E-01	4.60E-01
Toluene	1 : 3	33	4.50E-03	4.50E-03	4.50E-03
SVOCs					
Acenaphthene	1 : 3	33	4.30E-02	4.30E-02	4.30E-02
Anthracene	1 : 3	33	8.40E-02	8.40E-02	8.40E-02
Benzo(a)anthracene	1 : 3	33	2.00E-01	2.00E-01	2.00E-01
Benzo(a)pyrene	1 : 3	33	1.60E-01	1.60E-01	1.60E-01
Benzo(b)fluoranthene	1 : 3	33	8.00E-02	8.00E-02	8.00E-02
Benzo(g,h,i)perylene	1 : 3	33	1.00E-01	1.00E-01	1.00E-01
Benzo(k)fluoranthene	1 : 3	33	1.40E-01	1.40E-01	1.40E-01
bis(2-Ethylhexyl)phthalate	1 : 3	33	6.60E-02	6.60E-02	6.60E-02
Carbazole	1 : 3	33	4.50E-02	4.50E-02	4.50E-02
Chrysene	2 : 3	67	3.50E-02	7.48E-02	1.15E-01
Fluoranthene	2 : 3	67	4.20E-02	1.41E-01	2.39E-01
Indeno(1,2,3-cd)pyrene	1 : 3	33	8.90E-02	8.90E-02	8.90E-02
Phenanthrene	1 : 3	33	3.90E-01	3.90E-01	3.90E-01
Pyrene	1 : 3	33	3.70E-01	3.70E-01	3.70E-01
Pesticides					
4,4'-DDE	1 : 3	33	7.30E-04	7.30E-04	7.30E-04
4,4'-DDT	1 : 3	33	9.75E-04	9.75E-04	9.75E-04
delta-BHC	2 : 3	67	8.20E-05	1.26E-04	1.70E-04
Dieldrin	1 : 3	33	1.15E-03	1.15E-03	1.15E-03
Endosulfan sulfate	2 : 3	67	1.00E-04	1.20E-04	1.40E-04
Endrin ketone	1 : 3	33	1.70E-04	1.70E-04	1.70E-04
Methoxychlor	1 : 3	33	1.50E-03	1.50E-03	1.50E-03
Herbicides					
2,4-DB	1 : 3	33	6.50E-02	6.50E-02	6.50E-02
Dicamba	2 : 3	67	1.50E-03	1.63E-03	1.75E-03
MCPA	3 : 3	100	2.15E+00	2.68E+00	3.70E+00
Pentachlorophenol	3 : 3	100	2.00E-03	2.23E-03	2.50E-03
PCBs					
Total PCBs	2 : 3	67	4.22E-02	5.49E-02	6.75E-02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	3.27E-06	5.04E-06	6.04E-06
Metals					
Aluminum	3 : 3	100	7.25E+03	1.14E+04	1.40E+04
Antimony	1 : 3	33	6.50E-01	6.50E-01	6.50E-01
Arsenic	3 : 3	100	8.50E+00	9.20E+00	1.00E+01
Barium	3 : 3	100	1.75E+02	1.85E+02	2.00E+02
Beryllium	3 : 3	100	5.60E-01	7.37E-01	8.60E-01
Cadmium	3 : 3	100	1.70E+00	2.50E+00	3.20E+00
Calcium	3 : 3	100	6.60E+03	8.23E+03	1.10E+04
Chromium	3 : 3	100	1.30E+01	1.77E+01	2.00E+01
Cobalt	3 : 3	100	6.50E+00	8.43E+00	1.00E+01
Copper	3 : 3	100	5.40E+01	6.57E+01	7.90E+01

Table 3-81
DAS Transect 4 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Iron	3 : 3	100	1.45E+04	1.88E+04	2.10E+04
Lead	3 : 3	100	5.00E+01	7.37E+01	9.60E+01
Magnesium	3 : 3	100	3.70E+03	3.97E+03	4.20E+03
Manganese	3 : 3	100	3.95E+02	5.05E+02	6.10E+02
Mercury	3 : 3	100	6.00E-02	8.10E-02	1.10E-01
Molybdenum	3 : 3	100	5.80E-01	8.10E-01	1.00E+00
Nickel	3 : 3	100	1.85E+01	2.18E+01	2.40E+01
Potassium	3 : 3	100	2.00E+03	2.23E+03	2.60E+03
Selenium	1 : 3	33	8.80E-01	8.80E-01	8.80E-01
Silver	2 : 3	67	2.90E-01	2.90E-01	2.90E-01
Thallium	3 : 3	100	8.60E-01	1.02E+00	1.10E+00
Vanadium	3 : 3	100	2.10E+01	3.00E+01	3.50E+01
Zinc	3 : 3	100	1.80E+02	2.42E+02	3.10E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-82
DAS Transect 4 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Acetone	2 : 3	67	2.50E-02	1.23E-01	2.20E-01
Toluene	1 : 3	33	4.80E-03	4.80E-03	4.80E-03
SVOCs					
Benzo(g,h,i)perylene	1 : 3	33	6.25E-02	6.25E-02	6.25E-02
bis(2-Ethylhexyl)phthalate	1 : 3	33	7.00E-02	7.00E-02	7.00E-02
Pesticides					
delta-BHC	2 : 3	67	1.20E-04	1.75E-04	2.30E-04
Endosulfan sulfate	1 : 3	33	1.00E-03	1.00E-03	1.00E-03
Endrin ketone	1 : 3	33	2.90E-04	2.90E-04	2.90E-04
Herbicides					
Pentachlorophenol	1 : 3	33	1.70E-03	1.70E-03	1.70E-03
PCBs					
Total PCBs	1 : 3	33	1.00E-02	1.00E-02	1.00E-02
Metals					
Aluminum	3 : 3	100	4.10E+03	5.38E+03	6.55E+03
Arsenic	3 : 3	100	4.40E+00	4.88E+00	5.75E+00
Barium	3 : 3	100	1.30E+02	1.53E+02	1.90E+02
Beryllium	3 : 3	100	2.90E-01	3.68E-01	4.55E-01
Cadmium	3 : 3	100	1.80E-01	2.17E-01	2.70E-01
Calcium	3 : 3	100	6.80E+03	1.09E+04	1.50E+04
Chromium	3 : 3	100	8.10E+00	9.70E+00	1.10E+01
Cobalt	3 : 3	100	4.70E+00	5.30E+00	6.10E+00
Copper	3 : 3	100	6.20E+00	9.13E+00	1.25E+01
Iron	3 : 3	100	9.90E+03	1.13E+04	1.30E+04
Lead	3 : 3	100	6.40E+00	7.95E+00	9.75E+00
Magnesium	3 : 3	100	4.70E+03	5.53E+03	6.80E+03
Manganese	3 : 3	100	1.90E+02	2.75E+02	3.55E+02
Mercury	1 : 3	33	1.90E-02	1.90E-02	1.90E-02
Molybdenum	3 : 3	100	3.90E-01	4.22E-01	4.60E-01
Nickel	3 : 3	100	1.20E+01	1.40E+01	1.60E+01
Potassium	3 : 3	100	8.80E+02	1.09E+03	1.30E+03
Sodium	3 : 3	100	9.90E+01	1.13E+02	1.40E+02
Vanadium	3 : 3	100	1.50E+01	1.73E+01	2.00E+01
Zinc	3 : 3	100	3.00E+01	3.72E+01	4.55E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-82
DAS Transect 4 Floodplain Subsurface Soil Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-83
DAS Transect 5 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
2-Butanone (MEK)	1 : 3	33	2.00E-02	2.00E-02	2.00E-02
Acetone	1 : 3	33	1.60E-01	1.60E-01	1.60E-01
Benzene	1 : 3	33	1.80E-03	1.80E-03	1.80E-03
Toluene	1 : 3	33	2.80E-03	2.80E-03	2.80E-03
SVOCs					
Acenaphthylene	1 : 3	33	3.40E-02	3.40E-02	3.40E-02
Anthracene	1 : 3	33	8.90E-02	8.90E-02	8.90E-02
Benzo(a)anthracene	3 : 3	100	4.60E-02	2.00E-01	4.60E-01
Benzo(a)pyrene	3 : 3	100	5.80E-02	2.99E-01	6.00E-01
Benzo(b)fluoranthene	3 : 3	100	7.00E-02	3.43E-01	7.80E-01
Benzo(g,h,i)perylene	3 : 3	100	4.40E-02	2.81E-01	4.30E-01
Benzo(k)fluoranthene	3 : 3	100	5.80E-02	2.83E-01	6.00E-01
bis(2-Ethylhexyl)phthalate	3 : 3	100	9.40E-02	1.45E-01	1.80E-01
Butylbenzylphthalate	1 : 3	33	3.40E-01	3.40E-01	3.40E-01
Carbazole	1 : 3	33	7.10E-02	7.10E-02	7.10E-02
Chrysene	3 : 3	100	6.90E-02	3.06E-01	7.10E-01
Dibenzo(a,h)anthracene	2 : 3	67	1.10E-01	2.15E-01	3.20E-01
Di-n-butylphthalate	1 : 3	33	3.50E-02	3.50E-02	3.50E-02
Fluoranthene	3 : 3	100	1.00E-01	4.57E-01	1.10E+00
Indeno(1,2,3-cd)pyrene	2 : 3	67	3.50E-01	4.00E-01	4.50E-01
Phenanthrene	3 : 3	100	2.20E-02	1.47E-01	3.60E-01
Pyrene	3 : 3	100	7.70E-02	3.56E-01	8.10E-01
Pesticides					
4,4'-DDD	1 : 3	33	3.60E-02	3.60E-02	3.60E-02
4,4'-DDE	2 : 3	67	4.20E-03	6.25E-03	8.30E-03
4,4'-DDT	2 : 3	67	2.40E-02	6.70E-02	1.10E-01
Aldrin	1 : 3	33	2.30E-02	2.30E-02	2.30E-02
Alpha Chlordane	2 : 3	67	9.20E-03	3.16E-02	5.40E-02
Dieldrin	2 : 3	67	1.40E-03	6.07E-02	1.20E-01
Endrin	1 : 3	33	6.10E-03	6.10E-03	6.10E-03
Gamma Chlordane	2 : 3	67	7.10E-02	7.45E-02	7.80E-02
Heptachlor	1 : 3	33	9.10E-02	9.10E-02	9.10E-02
Heptachlor epoxide	1 : 3	33	3.00E-02	3.00E-02	3.00E-02
Methoxychlor	1 : 3	33	3.80E-02	3.80E-02	3.80E-02
Herbicides					
2,4-DB	2 : 3	67	1.80E-02	2.05E-02	2.30E-02
Dicamba	1 : 3	33	1.30E-03	1.30E-03	1.30E-03
Pentachlorophenol	1 : 3	33	4.30E-03	4.30E-03	4.30E-03
PCBs					
Total PCBs	1 : 3	33	3.50E-02	3.50E-02	3.50E-02
Dioxin					
Dioxin TEQ-HH	3 : 3	100	3.85E-06	1.07E-05	2.43E-05
Metals					
Aluminum	3 : 3	100	5.30E+03	5.87E+03	6.20E+03
Arsenic	3 : 3	100	5.40E+00	5.53E+00	5.70E+00
Barium	3 : 3	100	1.50E+02	1.63E+02	1.70E+02

Table 3-83
DAS Transect 5 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Beryllium	3 : 3	100	4.00E-01	4.37E-01	4.60E-01
Cadmium	3 : 3	100	1.40E+00	3.40E+00	5.70E+00
Calcium	3 : 3	100	1.10E+04	1.40E+04	1.80E+04
Chromium	3 : 3	100	1.10E+01	1.20E+01	1.30E+01
Cobalt	3 : 3	100	5.20E+00	5.77E+00	6.10E+00
Copper	3 : 3	100	4.00E+01	6.17E+01	7.50E+01
Iron	3 : 3	100	1.20E+04	1.27E+04	1.30E+04
Lead	3 : 3	100	3.50E+01	9.83E+01	1.30E+02
Magnesium	3 : 3	100	4.50E+03	4.63E+03	4.80E+03
Manganese	3 : 3	100	2.80E+02	3.47E+02	4.00E+02
Mercury	3 : 3	100	4.40E-02	7.67E-02	9.70E-02
Molybdenum	3 : 3	100	4.00E-01	5.87E-01	7.80E-01
Nickel	3 : 3	100	1.40E+01	1.63E+01	1.90E+01
Potassium	3 : 3	100	1.50E+03	1.57E+03	1.60E+03
Silver	2 : 3	67	2.10E-01	4.05E-01	6.00E-01
Vanadium	3 : 3	100	1.70E+01	1.83E+01	1.90E+01
Zinc	3 : 3	100	1.40E+02	4.07E+02	7.50E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-84
DAS Transect 5 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
SVOCs					
Benzo(g,h,i)perylene	1 : 3	33	3.00E-02	3.00E-02	3.00E-02
bis(2-Ethylhexyl)phthalate	2 : 3	67	6.50E-02	8.05E-02	9.60E-02
Herbicides					
2,4-DB	1 : 3	33	7.70E-03	7.70E-03	7.70E-03
Dioxin					
Dioxin TEQ-HH	1 : 1	100	3.00E-08	3.00E-08	3.00E-08
Metals					
Aluminum	3 : 3	100	3.60E+03	4.30E+03	5.30E+03
Arsenic	3 : 3	100	4.30E+00	4.73E+00	5.40E+00
Barium	3 : 3	100	1.60E+02	1.80E+02	2.00E+02
Beryllium	3 : 3	100	2.80E-01	3.23E-01	4.00E-01
Cadmium	3 : 3	100	1.90E-01	2.87E-01	3.40E-01
Calcium	3 : 3	100	1.30E+04	1.57E+04	1.90E+04
Chromium	3 : 3	100	7.30E+00	8.23E+00	9.70E+00
Cobalt	3 : 3	100	4.60E+00	5.00E+00	5.80E+00
Copper	3 : 3	100	6.30E+00	8.83E+00	1.20E+01
Iron	3 : 3	100	9.20E+03	1.03E+04	1.20E+04
Lead	3 : 3	100	6.70E+00	8.20E+00	9.00E+00
Magnesium	3 : 3	100	4.90E+03	5.67E+03	6.40E+03
Manganese	3 : 3	100	2.00E+02	2.40E+02	2.90E+02
Mercury	3 : 3	100	1.10E-02	1.50E-02	2.00E-02
Molybdenum	3 : 3	100	3.50E-01	3.83E-01	4.50E-01
Nickel	3 : 3	100	1.20E+01	1.30E+01	1.50E+01
Potassium	3 : 3	100	9.30E+02	1.04E+03	1.10E+03
Sodium	3 : 3	100	1.10E+02	1.30E+02	1.60E+02
Vanadium	3 : 3	100	1.30E+01	1.47E+01	1.70E+01
Zinc	3 : 3	100	3.10E+01	3.73E+01	4.10E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged.
Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-85
DAS Transect 6 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Acetone	3 : 3	100	4.80E-02	2.29E-01	4.20E-01
Toluene	1 : 3	33	2.20E-03	2.20E-03	2.20E-03
SVOCs					
Acenaphthene	1 : 3	33	4.20E-01	4.20E-01	4.20E-01
Anthracene	1 : 3	33	1.40E+00	1.40E+00	1.40E+00
Benzo(a)anthracene	2 : 3	67	7.00E-02	2.14E+00	4.20E+00
Benzo(a)pyrene	2 : 3	67	7.80E-02	1.84E+00	3.60E+00
Benzo(b)fluoranthene	2 : 3	67	7.20E-02	2.24E+00	4.40E+00
Benzo(g,h,i)perylene	1 : 3	33	1.30E+00	1.30E+00	1.30E+00
Benzo(k)fluoranthene	2 : 3	67	5.30E-02	1.73E+00	3.40E+00
bis(2-Ethylhexyl)phthalate	1 : 3	33	3.60E-01	3.60E-01	3.60E-01
Butylbenzylphthalate	1 : 3	33	5.70E-02	5.70E-02	5.70E-02
Carbazole	1 : 3	33	8.60E-01	8.60E-01	8.60E-01
Chrysene	2 : 3	67	1.00E-01	2.50E+00	4.90E+00
Dibenzo(a,h)anthracene	1 : 3	33	6.00E-01	6.00E-01	6.00E-01
Dibenzofuran	1 : 3	33	2.30E-01	2.30E-01	2.30E-01
Fluoranthene	2 : 3	67	1.10E-01	4.96E+00	9.80E+00
Fluorene	1 : 3	33	5.80E-01	5.80E-01	5.80E-01
Indeno(1,2,3-cd)pyrene	1 : 3	33	1.10E+00	1.10E+00	1.10E+00
Phenanthrene	2 : 3	67	2.80E-02	3.56E+00	7.10E+00
Pyrene	2 : 3	67	1.10E-01	3.91E+00	7.70E+00
Pesticides					
4,4'-DDD	1 : 3	33	1.80E-03	1.80E-03	1.80E-03
4,4'-DDE	3 : 3	100	6.60E-04	1.15E-03	2.00E-03
Alpha Chlordane	1 : 3	33	1.70E-02	1.70E-02	1.70E-02
alpha-BHC	1 : 3	33	2.20E-04	2.20E-04	2.20E-04
beta-BHC	1 : 3	33	3.80E-03	3.80E-03	3.80E-03
delta-BHC	1 : 3	33	1.20E-04	1.20E-04	1.20E-04
Endosulfan sulfate	3 : 3	100	5.70E-04	1.14E-03	1.90E-03
Endrin	1 : 3	33	2.20E-03	2.20E-03	2.20E-03
Endrin aldehyde	1 : 3	33	7.50E-04	7.50E-04	7.50E-04
Endrin ketone	2 : 3	67	2.30E-04	4.50E-04	6.70E-04
Gamma Chlordane	1 : 3	33	1.80E-02	1.80E-02	1.80E-02
gamma-BHC (Lindane)	1 : 3	33	1.30E-04	1.30E-04	1.30E-04
Heptachlor	1 : 3	33	4.10E-03	4.10E-03	4.10E-03
Heptachlor epoxide	1 : 3	33	1.80E-04	1.80E-04	1.80E-04
Methoxychlor	3 : 3	100	1.50E-03	3.60E-03	5.50E-03
Herbicides					
Dicamba	2 : 3	67	1.70E-03	2.35E-03	3.00E-03
Pentachlorophenol	2 : 3	67	1.60E-03	1.80E-03	2.00E-03
PCBs					
Total PCBs	2 : 3	67	3.00E-02	1.05E-01	1.79E-01
Dioxin					
Dioxin TEQ-HH	3 : 3	100	2.34E-06	5.03E-06	7.32E-06
Metals					
Aluminum	3 : 3	100	5.20E+03	6.60E+03	7.50E+03

Table 3-85
DAS Transect 6 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Antimony	1 : 3	33	5.90E-01	5.90E-01	5.90E-01
Arsenic	3 : 3	100	4.30E+00	6.03E+00	8.00E+00
Barium	3 : 3	100	1.10E+02	1.57E+02	2.00E+02
Beryllium	3 : 3	100	3.20E-01	4.53E-01	5.50E-01
Cadmium	3 : 3	100	1.10E+00	2.30E+00	4.00E+00
Calcium	3 : 3	100	9.50E+03	5.64E+04	1.50E+05
Chromium	3 : 3	100	1.30E+01	1.33E+01	1.40E+01
Cobalt	3 : 3	100	3.90E+00	5.50E+00	6.50E+00
Copper	3 : 3	100	2.40E+01	3.87E+01	5.60E+01
Iron	3 : 3	100	9.00E+03	1.27E+04	1.50E+04
Lead	3 : 3	100	2.90E+01	7.53E+01	1.10E+02
Magnesium	3 : 3	100	4.90E+03	7.27E+03	1.10E+04
Manganese	3 : 3	100	2.80E+02	3.23E+02	3.50E+02
Mercury	3 : 3	100	4.90E-02	5.63E-02	7.10E-02
Molybdenum	3 : 3	100	3.70E-01	5.97E-01	8.30E-01
Nickel	3 : 3	100	1.50E+01	1.73E+01	2.00E+01
Potassium	3 : 3	100	1.60E+03	1.73E+03	1.90E+03
Silver	1 : 3	33	2.90E-01	2.90E-01	2.90E-01
Thallium	2 : 3	67	7.30E-01	8.50E-01	9.70E-01
Vanadium	3 : 3	100	1.70E+01	2.03E+01	2.20E+01
Zinc	3 : 3	100	1.10E+02	2.33E+02	3.50E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-86
DAS Transect 6 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Acetone	1 : 3	33	4.00E-02	4.00E-02	4.00E-02
Benzene	1 : 3	33	3.00E-03	3.00E-03	3.00E-03
Toluene	1 : 3	33	6.60E-03	6.60E-03	6.60E-03
Xylenes, Total	1 : 3	33	4.30E-03	4.30E-03	4.30E-03
Pesticides					
delta-BHC	1 : 3	33	1.40E-04	1.40E-04	1.40E-04
Endosulfan sulfate	2 : 3	67	4.20E-04	5.00E-04	5.80E-04
Herbicides					
MCPA	1 : 3	33	1.40E+00	1.40E+00	1.40E+00
Dioxin					
Dioxin TEQ-HH	1 : 1	100	5.70E-08	5.70E-08	5.70E-08
Metals					
Aluminum	3 : 3	100	5.50E+03	5.93E+03	6.70E+03
Arsenic	3 : 3	100	5.70E+00	5.93E+00	6.10E+00
Barium	3 : 3	100	1.90E+02	1.97E+02	2.00E+02
Beryllium	3 : 3	100	3.80E-01	4.03E-01	4.50E-01
Cadmium	3 : 3	100	2.90E-01	4.00E-01	5.90E-01
Calcium	3 : 3	100	1.40E+04	1.63E+04	1.80E+04
Chromium	3 : 3	100	9.80E+00	1.03E+01	1.10E+01
Cobalt	3 : 3	100	5.30E+00	5.50E+00	5.80E+00
Copper	3 : 3	100	9.40E+00	1.11E+01	1.20E+01
Iron	3 : 3	100	1.20E+04	1.23E+04	1.30E+04
Lead	3 : 3	100	8.00E+00	1.09E+01	1.60E+01
Magnesium	3 : 3	100	6.40E+03	6.60E+03	6.80E+03
Manganese	3 : 3	100	2.40E+02	2.67E+02	2.90E+02
Mercury	1 : 3	33	7.80E-02	7.80E-02	7.80E-02
Molybdenum	3 : 3	100	3.90E-01	4.23E-01	4.60E-01
Nickel	3 : 3	100	1.40E+01	1.50E+01	1.60E+01
Potassium	3 : 3	100	1.20E+03	1.30E+03	1.50E+03
Sodium	3 : 3	100	1.20E+02	1.30E+02	1.40E+02
Vanadium	3 : 3	100	1.80E+01	1.87E+01	2.00E+01
Zinc	3 : 3	100	3.70E+01	4.63E+01	6.00E+01

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-86
DAS Transect 6 Floodplain Subsurface Soil Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-87
DAS Transect 7 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Acetone	2 : 2	100	3.40E-01	4.10E-01	4.80E-01
Benzene	1 : 2	50	4.80E-03	4.80E-03	4.80E-03
Carbon disulfide	1 : 2	50	4.30E-03	4.30E-03	4.30E-03
Ethylbenzene	1 : 2	50	3.00E-03	3.00E-03	3.00E-03
Toluene	2 : 2	100	2.20E-03	5.50E-03	8.80E-03
Xylenes, Total	1 : 2	50	4.20E-03	4.20E-03	4.20E-03
SVOCs					
Acenaphthene	2 : 2	100	5.90E-02	1.10E-01	1.60E-01
Anthracene	2 : 2	100	1.00E-01	2.30E-01	3.60E-01
Benzo(a)anthracene	2 : 2	100	5.00E-01	1.20E+00	1.90E+00
Benzo(a)pyrene	2 : 2	100	5.20E-01	1.31E+00	2.10E+00
Benzo(b)fluoranthene	2 : 2	100	5.80E-01	1.39E+00	2.20E+00
Benzo(g,h,i)perylene	2 : 2	100	3.10E-01	7.05E-01	1.10E+00
Benzo(k)fluoranthene	2 : 2	100	4.70E-01	1.29E+00	2.10E+00
bis(2-Ethylhexyl)phthalate	1 : 2	50	9.10E-02	9.10E-02	9.10E-02
Carbazole	2 : 2	100	1.10E-01	2.10E-01	3.10E-01
Chrysene	2 : 2	100	7.70E-01	1.69E+00	2.60E+00
Dibenzo(a,h)anthracene	2 : 2	100	1.20E-01	2.65E-01	4.10E-01
Dibenzofuran	1 : 2	50	5.20E-02	5.20E-02	5.20E-02
Fluoranthene	2 : 2	100	1.40E+00	3.50E+00	5.60E+00
Fluorene	2 : 2	100	5.60E-02	9.80E-02	1.40E-01
Indeno(1,2,3-cd)pyrene	2 : 2	100	2.80E-01	6.90E-01	1.10E+00
Phenanthrene	2 : 2	100	9.70E-01	1.94E+00	2.90E+00
Pyrene	2 : 2	100	1.00E+00	2.45E+00	3.90E+00
Pesticides					
4,4'-DDD	1 : 2	50	1.30E-03	1.30E-03	1.30E-03
4,4'-DDE	1 : 2	50	1.60E-03	1.60E-03	1.60E-03
4,4'-DDT	1 : 2	50	1.50E-02	1.50E-02	1.50E-02
Alpha Chlordane	2 : 2	100	3.00E-04	5.65E-03	1.10E-02
delta-BHC	1 : 2	50	1.80E-04	1.80E-04	1.80E-04
Endrin	2 : 2	100	1.00E-04	2.50E-04	4.00E-04
Gamma Chlordane	1 : 2	50	1.00E-02	1.00E-02	1.00E-02
gamma-BHC (Lindane)	1 : 2	50	8.70E-05	8.70E-05	8.70E-05
Heptachlor epoxide	1 : 2	50	6.20E-04	6.20E-04	6.20E-04
Methoxychlor	1 : 2	50	1.00E-02	1.00E-02	1.00E-02
Herbicides					
Pentachlorophenol	1 : 2	50	2.50E-03	2.50E-03	2.50E-03
PCBs					
Total PCBs	1 : 2	50	1.00E-02	1.00E-02	1.00E-02
Dioxin					
Dioxin TEQ-HH	2 : 2	100	1.16E-06	3.72E-06	6.28E-06
Metals					
Aluminum	2 : 2	100	7.20E+03	8.10E+03	9.00E+03
Arsenic	2 : 2	100	6.80E+00	7.20E+00	7.60E+00
Barium	2 : 2	100	1.60E+02	1.70E+02	1.80E+02
Beryllium	2 : 2	100	4.70E-01	5.30E-01	5.90E-01

Table 3-87
DAS Transect 7 Floodplain Surface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
Metals (cont.)					
Cadmium	2 : 2	100	2.20E+00	2.90E+00	3.60E+00
Calcium	2 : 2	100	8.10E+03	2.31E+04	3.80E+04
Chromium	2 : 2	100	1.60E+01	1.80E+01	2.00E+01
Cobalt	2 : 2	100	6.10E+00	6.80E+00	7.50E+00
Copper	2 : 2	100	2.90E+01	3.10E+01	3.30E+01
Iron	2 : 2	100	1.40E+04	1.45E+04	1.50E+04
Lead	2 : 2	100	3.90E+01	5.30E+01	6.70E+01
Magnesium	2 : 2	100	5.20E+03	6.55E+03	7.90E+03
Manganese	2 : 2	100	3.80E+02	3.85E+02	3.90E+02
Mercury	2 : 2	100	6.60E-02	7.75E-02	8.90E-02
Molybdenum	2 : 2	100	5.10E-01	6.00E-01	6.90E-01
Nickel	2 : 2	100	1.80E+01	1.95E+01	2.10E+01
Potassium	2 : 2	100	1.50E+03	1.75E+03	2.00E+03
Thallium	1 : 2	50	8.50E-01	8.50E-01	8.50E-01
Vanadium	2 : 2	100	2.20E+01	2.35E+01	2.50E+01
Zinc	2 : 2	100	2.60E+02	5.65E+02	8.70E+02

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
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(a) Number of samples detected: Total number of samples.
(b) Percent detected
(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-88
DAS Transect 7 Floodplain Subsurface Soil Data Summary

Constituent	FOD (a)	%FOD (b)	Minimum (c) (mg/kg)	Mean (c) (mg/kg)	Maximum (c) (mg/kg)
VOCs					
Acetone	2 : 2	100	1.40E-01	2.25E-01	3.10E-01
Benzene	2 : 2	100	2.50E-03	2.85E-03	3.20E-03
Carbon disulfide	2 : 2	100	4.90E-03	6.35E-03	7.80E-03
Chlorobenzene	1 : 2	50	1.00E-02	1.00E-02	1.00E-02
Toluene	1 : 2	50	5.40E-03	5.40E-03	5.40E-03
SVOCs					
bis(2-Ethylhexyl)phthalate	1 : 2	50	1.40E-01	1.40E-01	1.40E-01
Pesticides					
Endosulfan sulfate	2 : 2	100	3.20E-04	4.45E-04	5.70E-04
Herbicides					
Pentachlorophenol	1 : 2	50	2.60E-03	2.60E-03	2.60E-03
Metals					
Aluminum	2 : 2	100	7.90E+03	8.80E+03	9.70E+03
Antimony	1 : 2	50	6.00E-01	6.00E-01	6.00E-01
Arsenic	2 : 2	100	5.50E+00	6.05E+00	6.60E+00
Barium	2 : 2	100	2.20E+02	2.50E+02	2.80E+02
Beryllium	2 : 2	100	4.90E-01	4.95E-01	5.00E-01
Cadmium	2 : 2	100	3.70E-01	4.13E+00	7.90E+00
Calcium	2 : 2	100	4.70E+03	1.09E+04	1.70E+04
Chromium	2 : 2	100	1.30E+01	7.15E+01	1.30E+02
Cobalt	2 : 2	100	5.70E+00	6.25E+00	6.80E+00
Copper	2 : 2	100	1.40E+01	3.80E+01	6.20E+01
Iron	2 : 2	100	1.10E+04	1.30E+04	1.50E+04
Lead	2 : 2	100	1.00E+01	4.35E+01	7.70E+01
Magnesium	2 : 2	100	3.20E+03	5.10E+03	7.00E+03
Manganese	2 : 2	100	1.50E+02	2.75E+02	4.00E+02
Mercury	1 : 2	50	1.20E-01	1.20E-01	1.20E-01
Molybdenum	2 : 2	100	3.30E-01	4.25E-01	5.20E-01
Nickel	2 : 2	100	1.70E+01	1.80E+01	1.90E+01
Potassium	2 : 2	100	1.70E+03	1.90E+03	2.10E+03
Sodium	2 : 2	100	1.60E+02	2.10E+02	2.60E+02
Thallium	1 : 2	50	7.20E-01	7.20E-01	7.20E-01
Vanadium	2 : 2	100	2.30E+01	2.30E+01	2.30E+01
Zinc	2 : 2	100	7.40E+01	6.37E+02	1.20E+03

Notes:
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration
Calculated using TEFs from Van den Berg, et al., 2006.
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile organic compound.
TEF - Toxicity Equivalency Factor.
VOC - Volatile Organic Compound.
(a) Number of samples detected: Total number of samples.
(b) Percent detected

Table 3-88
DAS Transect 7 Floodplain Subsurface Soil Data Summary

(c) Summary statistics for each constituent for each area after sample/duplicate pairs were averaged. Only detected results are included in the mean calculation. Where both of the sample and duplicate results were reported as detected or where both were reported as not detected, the average of the values is used. Where one of the sample and duplicate results was reported as not detected and the other detected, the detected result is used.

Table 3-89
Groundwater Screening Levels For All Constituents Detected in Groundwater

Constituent	CAS No.	Screening Criteria (a) (ug/L)		
VOCs				
1,1,2,2-Tetrachloroethane	79-34-5	6.70E-02	RSL	
1,1-Dichloroethane	75-34-3	2.40E+00	RSL	
1,1-Dichloroethene	75-35-4	7.00E+00	MCL	
4-Methyl-2-pentanone (MIBK)	108-10-1	2.00E+03	RSL	
Acetone	67-64-1	2.20E+04	RSL	
Benzene	71-43-2	5.00E+00	MCL	
Carbon disulfide	75-15-0	1.00E+03	RSL	
Chlorobenzene	108-90-7	1.00E+02	MCL	
Chloroform	67-66-3	8.00E+01	MCL	
Cis/Trans-1,2-Dichloroethene	540-59-0	3.30E+02	RSL	
Ethylbenzene	100-41-4	7.00E+02	MCL	
Tetrachloroethene	127-18-4	5.00E+00	MCL	
Toluene	108-88-3	1.00E+03	MCL	
Trichloroethene	79-01-6	5.00E+00	MCL	
Vinyl chloride	75-01-4	2.00E+00	MCL	
Xylenes, Total	1330-20-7	1.00E+04	MCL	
SVOCs				
2,4,5-Trichlorophenol	95-95-4	3.70E+03	RSL	
2,4,6-Trichlorophenol	88-06-2	6.10E+00	RSL	
1,2,4-Trichlorobenzene	120-82-1	7.00E+01	MCL	
1,2-Dichlorobenzene	95-50-1	6.00E+02	MCL	
1,3-Dichlorobenzene	541-73-1	7.50E+01	MCL	(b)
1,4-Dichlorobenzene	106-46-7	7.50E+01	MCL	
2,4-Dichlorophenol	120-83-2	1.10E+02	RSL	
2-Chloronaphthalene	91-58-7	2.90E+03	RSL	
2-Chlorophenol	95-57-8	1.80E+02	RSL	
2-Methylnaphthalene	91-57-6	1.50E+02	RSL	
2-Methylphenol (o-cresol)	95-48-7	1.80E+03	RSL	
2-Nitroaniline	88-74-4	1.10E+02	RSL	
3-Methylphenol/4-Methylphenol	106-44-5	1.80E+02	RSL	
4,6-Dinitro-2-methylphenol	534-52-1	3.70E+00	RSL	
4-Chloro-3-methylphenol	59-50-7	NA	NA	
4-Chloroaniline	106-47-8	3.40E-01	RSL	
4-Nitroaniline	100-01-6	3.40E+00	RSL	
Acenaphthene	83-32-9	2.20E+03	RSL	
Acenaphthylene	208-96-8	2.20E+03	RSL	(c)
Anthracene	120-12-7	1.10E+04	RSL	
Benzo(a)anthracene	56-55-3	2.90E-02	RSL	
Benzo(a)pyrene	50-32-8	2.00E-01	MCL	
Benzo(b)fluoranthene	205-99-2	2.90E-02	RSL	
Benzo(g,h,i)perylene	191-24-2	1.10E+03	RSL	(d)
Benzo(k)fluoranthene	207-08-9	2.90E-01	RSL	
bis(2-Chloroethyl)ether	111-44-4	1.20E-02	RSL	
bis(2-Ethylhexyl)phthalate	117-81-7	6.00E+00	MCL	
Butylbenzylphthalate	85-68-7	3.50E+01	RSL	
Carbazole	86-74-8	NA	NA	
Chrysene	218-01-9	2.90E+00	RSL	
Dibenzo(a,h)anthracene	53-70-3	2.90E-03	RSL	

Table 3-89
Groundwater Screening Levels For All Constituents Detected in Groundwater

Constituent	CAS No.	Screening Criteria (a) (ug/L)		
SVOCs (cont.)				
Dibenzofuran	132-64-9	NA	NA	
Diethylphthalate	84-66-2	2.90E+04	RSL	
Dimethylphthalate	131-11-3	2.90E+04	RSL	(e)
Di-n-butylphthalate	84-74-2	3.70E+03	RSL	
Di-n-octylphthalate	117-84-0	NA	NA	
Fluoranthene	206-44-0	1.50E+03	RSL	
Fluorene	86-73-7	1.50E+03	RSL	
Hexachlorobenzene	118-74-1	1.00E+00	MCL	
Indeno(1,2,3-cd)pyrene	193-39-5	2.90E-02	RSL	
Isophorone	78-59-1	7.10E+01	RSL	
Naphthalene	91-20-3	1.40E-01	RSL	
Nitrobenzene	98-95-3	1.20E-01	RSL	
N-Nitrosodiphenylamine	122-39-4	9.10E+02	RSL	
Pentachlorophenol	87-86-5	1.00E+00	MCL	
Pentachlorophenol (8270)	87-86-5svoc	1.00E+00	MCL	
Phenanthrene	85-01-8	1.10E+04	RSL	(f)
Phenol	108-95-2	1.10E+04	RSL	
Pyrene	129-00-0	1.10E+03	RSL	
Pesticides				
4,4'-DDD	72-54-8	2.80E-01	RSL	
4,4'-DDE	72-55-9	2.00E-01	RSL	
4,4'-DDT	50-29-3	2.00E-01	RSL	
Aldrin	309-00-2	4.00E-03	RSL	
Alpha Chlordane	5103-71-9	2.00E+00	MCL	(g)
alpha-BHC	319-84-6	1.10E-02	RSL	
beta-BHC	319-85-7	3.70E-02	RSL	
delta-BHC	319-86-8	1.10E-02	RSL	(h)
Dieldrin	60-57-1	4.20E-03	RSL	
Endosulfan I	959-98-8	2.20E+02	RSL	(i)
Endosulfan II	33213-65-9	2.20E+02	RSL	(i)
Endosulfan sulfate	1031-07-8	2.20E+02	RSL	(i)
Endrin	72-20-8	2.00E+00	MCL	
Endrin aldehyde	7421-93-4	2.00E+00	MCL	(j)
Endrin ketone	53494-70-5	2.00E+00	MCL	(j)
Gamma Chlordane	5103-74-2	2.00E+00	MCL	(g)
gamma-BHC (Lindane)	58-89-9	2.00E-01	MCL	
Heptachlor	76-44-8	4.00E-01	MCL	
Heptachlor epoxide	1024-57-3	2.00E-01	MCL	
Methoxychlor	72-43-5	4.00E+01	MCL	
Herbicides				
2,4,5-T	93-76-5	3.70E+02	RSL	
2,4,5-TP (Silvex)	93-72-1	5.00E+01	MCL	
2,4-D	94-75-7	7.00E+01	MCL	
2,4-DB	94-82-6	2.90E+02	RSL	
Dicamba	1918-00-9	1.10E+03	RSL	
Dichloroprop	120-36-5	NA	NA	
Dinoseb	88-85-7	7.00E+00	MCL	
MCPA	94-74-6	1.80E+01	RSL	
MCPP	7085-19-0	NA	NA	
PCBs				
Total PCBs	1366-36-3	5.00E-01	MCL	
Dioxin				
Dioxin TEQ-HH	1746-01-6	3.00E-05	MCL	

Table 3-89
Groundwater Screening Levels For All Constituents Detected in Groundwater

Constituent	CAS No.	Screening Criteria (a) (ug/L)		
Metals				
Aluminum	7429-90-5	2.00E+02	MCL	(k)
Antimony	7440-36-0	6.00E+00	MCL	
Arsenic	7440-38-2	1.00E+01	MCL	
Barium	7440-39-3	2.00E+03	MCL	
Beryllium	7440-41-7	4.00E+00	MCL	
Cadmium	7440-43-9	5.00E+00	MCL	
Calcium	7440-70-2	NA	NA	(l)
Chromium	7440-47-3	1.00E+02	MCL	
Cobalt	7440-48-4	1.10E+01	RSL	
Copper	7440-50-8	1.30E+03	MCL	
Cyanide, Total	57-12-5	2.00E+02	MCL	
Iron	7439-89-6	3.00E+02	MCL	(k)
Lead	7439-92-1	1.50E+01	MCL	
Magnesium	7439-95-4	NA	NA	(l)
Manganese	7439-96-5	5.00E+01	MCL	(k)
Mercury	7439-97-6	2.00E+00	MCL	
Molybdenum	7439-98-7	1.80E+02	RSL	
Nickel	7440-02-0	7.30E+02	RSL	
Potassium	7440-09-7	NA	NA	(l)
Selenium	7782-49-2	5.00E+01	MCL	
Silver	7440-22-4	1.00E+02	MCL	(k)
Sodium	7440-23-5	NA	NA	(l)
Thallium	7440-28-0	2.00E+00	MCL	
Vanadium	7440-62-2	2.60E+02	RSL	
Zinc	7440-66-6	5.00E+03	MCL	(k)

Notes:
2,4-D - 2,4-Dichlorophenoxy acetic acid.
2,4-DB - 4-(2,4-Dichlorophenoxy) butyric acid.
2,4,5-T - 2,4,5-Trichlorophenoxy acetic acid.
BHC - Hexachlorocyclohexane.
CAS - Chemical Abstract Service.
Dicamba - 2-Methoxy-3,6-dichlorobenzoic acid.
Dioxin TEQ-HH - 2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxic Equivalent Concentration.
Calculated using TEFs from Van den Berg et al., 2006.
MCL - USEPA Maximum Contaminant Levels, 2006.
MCPA - 4(Chloro-2-methoxyphenoxy)acetic acid.
MCPP - 2-(2-Methyl-4-chlorophenoxy)propionic acid.
NA - Not Available.
RSL - USEPA Regional Screening Levels for Tap Water (April 2009).
PCB - Polychlorinated Biphenyl.
SVOC - Semivolatile Organic Compound.
TEF - Toxicity Equivalency Factor.
USEPA - United States Environmental Protection Agency.
VOC - Volatile Organic Compound.

(a) Equals the USEPA MCL (2006) or the USEPA RSL (April 2009) if an MCL is not available.
(b) Due to structural similarities, the value for 1,4-dichlorobenzene is used.
(c) Due to structural similarities, the value for acenaphthene is used.
(d) Due to structural similarities, the value for pyrene is used.
(e) Due to structural similarities, the value for diethylphthalate is used.
(f) Due to structural similarities, the value for anthracene is used.
(g) Due to structural similarities, the value for chlordane is used.
(h) Due to structural similarities, the value for alpha-BHC is used.
(i) Due to structural similarities, the value for endosulfan is used.
(j) Due to structural similarities, the value for endrin is used.
(k) Secondary Drinking Water Regulation.
(l) Essential nutrient.