TABLES

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Table 1
Soil Sample Locations Used to Evaluate the Residential Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	B-13	928	26-Apr-95	0 – 7	3.5
Filled Ravine	B-13	966	26-Apr-95	0 – 7	3.5
Filled Ravine	B-13	966	26-Apr-95	0 – 7	3.5
Filled Ravine	B-13	966	26-Apr-95	0 – 7	3.5
Filled Ravine	B-23	1076	23-Sep-98	2 – 4	3
Filled Ravine	B-23	1103	23-Sep-98	2 – 4	3
Filled Ravine	B-23	1103	23-Sep-98	2 – 4	3
Filled Ravine	B-23	1103	23-Sep-98	2 – 4	3
Filled Ravine	B-24	1083	23-Sep-98	2 – 4	3
Filled Ravine	B-24	1110	23-Sep-98	2 – 4	3
Filled Ravine	B-24	1110	23-Sep-98	2 – 4	3
Filled Ravine	B-24	1110	23-Sep-98	2 – 4	3
Filled Ravine	B-25	1081	23-Sep-98	4.5 – 6.5	5.5
Filled Ravine	B-25	1107	23-Sep-98	4.5 – 6.5	5.5
Filled Ravine	B-25	1107	23-Sep-98	4.5 – 6.5	5.5
Filled Ravine	B-25	1107	23-Sep-98	4.5 – 6.5	5.5
Filled Ravine	B-25	1107	23-Sep-98	4.5 – 6.5	5.5
Filled Ravine	GP101	NS-SOGP101-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP101	NS-SOGP101-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP101	NS-SOGP101-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP101	NS-SOGP101-6-8-041905	19-Apr-05	6 – 8	7
Filled Ravine	GP101	NS-SOGP101-6-8-041905	19-Apr-05	6 – 8	7
Filled Ravine	GP101	NS-SOGP101-6-8-041905	19-Apr-05	6 – 8	7
Filled Ravine	GP101	NS-SQDup01-0405-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP101	NS-SQDup01-0405-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP101	NS-SQDup01-0405-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP103	NS-SOGP103-2-4-042705	27-Apr-05	2 – 4	3
Filled Ravine	GP103	NS-SOGP103-2-4-042705	27-Apr-05	2 – 4	3
Filled Ravine	GP103	NS-SOGP103-2-4-042705	27-Apr-05	2 – 4	3
Filled Ravine	GP103	NS-SOGP103-6-8-042705	27-Apr-05	6 – 8	7
Filled Ravine	GP103	NS-SOGP103-6-8-042705	27-Apr-05	6 – 8	7
Filled Ravine	GP103	NS-SOGP103-6-8-042705	27-Apr-05	6 – 8	7
Filled Ravine	GP104	NS-SOGP104-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP104	NS-SOGP104-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP104	NS-SOGP104-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP104	NS-SOGP104-4-6-041905	19-Apr-05	4 – 6	5
Filled Ravine	GP104	NS-SOGP104-4-6-041905	19-Apr-05	4 – 6	5
Filled Ravine	GP104	NS-SOGP104-4-6-041905	19-Apr-05	4 – 6	5
Filled Ravine	GP105	NS-SOGP105-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP105	NS-SOGP105-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP105	NS-SOGP105-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP105	NS-SQDup03-0405-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP105	NS-SQDup03-0405-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP105	NS-SQDup03-0405-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP106	NS-SOGP106-3-4-041905	19-Apr-05	3 – 4	3.5
Filled Ravine	GP106	NS-SOGP106-3-4-041905	19-Apr-05	3 – 4	3.5
Filled Ravine	GP106	NS-SOGP106-3-4-041905	19-Apr-05	3 – 4	3.5
Filled Ravine	GP107	NS-SOGP107-1-3, MS/MSD-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP107	NS-SOGP107-1-3, MS/MSD-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP107	NS-SOGP107-1-3, MS/MSD-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP107	NS-SOGP107-6-8-042005	20-Apr-05	6 – 8	7
Filled Ravine	GP107	NS-SOGP107-6-8-042005	20-Apr-05	6 – 8	7
Filled Ravine	GP107	NS-SOGP107-6-8-042005	20-Apr-05	6 – 8	7
Filled Ravine	GP108	NS-SOGP108-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP108	NS-SOGP108-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP108	NS-SOGP108-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP108	NS-SOGP108-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP108	NS-SOGP108-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP108	NS-SOGP108-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP109	NS-SOGP109-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP109	NS-SOGP109-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP109	NS-SOGP109-2-4-041905	19-Apr-05	2 – 4	3

Table 1
Soil Sample Locations Used to Evaluate the Residential Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	GP109	NS-SOGP109-6-8-041905	19-Apr-05	6 – 8	7
Filled Ravine	GP109	NS-SOGP109-6-8-041905	19-Apr-05	6 – 8	7
Filled Ravine	GP109	NS-SOGP109-6-8-041905	19-Apr-05	6 – 8	7
Filled Ravine	GP110	NS-SOGP110-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP110	NS-SOGP110-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP110	NS-SOGP110-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP110	NS-SOGP110-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP110	NS-SOGP110-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP110	NS-SOGP110-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP111	NS-SOGP111-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP111	NS-SOGP111-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP111	NS-SOGP111-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP111	NS-SOGP111-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP111	NS-SOGP111-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP111	NS-SOGP111-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP112	NS-SOGP112-1-3-041905	19-Apr-05	1 – 3	2
Filled Ravine	GP112	NS-SOGP112-1-3-041905	19-Apr-05	1 – 3	2
Filled Ravine	GP112	NS-SOGP112-1-3-041905	19-Apr-05	1 – 3	2
Filled Ravine	GP112	NS-SOGP112-3-4-041905	19-Apr-05	3 – 4	3.5
Filled Ravine	GP112	NS-SOGP112-3-4-041905	19-Apr-05	3 – 4	3.5
Filled Ravine	GP112	NS-SOGP112-3-4-041905	19-Apr-05	3 – 4	3.5
Filled Ravine	GP113	NS-SOGP113-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP113	NS-SOGP113-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP113	NS-SOGP113-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP113	NS-SOGP113-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP113	NS-SOGP113-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP113	NS-SOGP113-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP113	NS-SQDup02-0405-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP113	NS-SQDup02-0405-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP113	NS-SQDup02-0405-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP114	NS-SOGP114-1-3 MS/MSD-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP114	NS-SOGP114-1-3 MS/MSD-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP114	NS-SOGP114-1-3 MS/MSD-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP114	NS-SOGP114-4-6-042005	20-Apr-05	4 – 6	5
Filled Ravine	GP114	NS-SOGP114-4-6-042005	20-Apr-05	4 – 6	5
Filled Ravine	GP114	NS-SOGP114-4-6-042005	20-Apr-05	4 – 6	5
Filled Ravine	GP115	NS-SOGP115-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP115	NS-SOGP115-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP115	NS-SOGP115-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP115	NS-SOGP115-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP115	NS-SOGP115-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP115	NS-SOGP115-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP116	NS-SOGP116-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP116	NS-SOGP116-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP116	NS-SOGP116-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP116	NS-SOGP116-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP116	NS-SOGP116-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP116	NS-SOGP116-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP117	NS-SOGP117-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP117	NS-SOGP117-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP117	NS-SOGP117-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP117	NS-SOGP117-6-8-042005	20-Apr-05	6 – 8	7
Filled Ravine	GP117	NS-SOGP117-6-8-042005	20-Apr-05	6 – 8	7
Filled Ravine	GP117	NS-SOGP117-6-8-042005	20-Apr-05	6 – 8	7
Filled Ravine	GP118	NS-SOGP118-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP118	NS-SOGP118-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP118	NS-SOGP118-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP118	NS-SOGP118-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP118	NS-SOGP118-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP118	NS-SOGP118-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP119	NS-SOGP119-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP119	NS-SOGP119-1-3-042505	25-Apr-05	1 – 3	2

Table 1
Soil Sample Locations Used to Evaluate the Residential Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	GP119	NS-SOGP119-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP119	NS-SOGP119-4-6-042505	25-Apr-05	4 – 6	5
Filled Ravine	GP119	NS-SOGP119-4-6-042505	25-Apr-05	4 – 6	5
Filled Ravine	GP119	NS-SOGP119-4-6-042505	25-Apr-05	4 – 6	5
Filled Ravine	GP120	NS-SOGP120-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP120	NS-SOGP120-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP120	NS-SOGP120-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP120	NS-SOGP120-4-6 MS/MSD-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP120	NS-SOGP120-4-6 MS/MSD-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP120	NS-SOGP120-4-6 MS/MSD-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP121	NS-SOGP121-1-3 MS/MSD-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP121	NS-SOGP121-1-3 MS/MSD-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP121	NS-SOGP121-1-3 MS/MSD-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP121	NS-SOGP121-4-6-042505	25-Apr-05	4 – 6	5
Filled Ravine	GP121	NS-SOGP121-4-6-042505	25-Apr-05	4 – 6	5
Filled Ravine	GP121	NS-SOGP121-4-6-042505	25-Apr-05	4 – 6	5
Filled Ravine	GP121	NS-SOGP121-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP121	NS-SOGP121-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP121	NS-SOGP121-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP122	NS-SOGP122-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP122	NS-SOGP122-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP122	NS-SOGP122-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP122	NS-SOGP122-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP122	NS-SOGP122-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP122	NS-SOGP122-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP122	NS-SQDup08-0405-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP122	NS-SQDup08-0405-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP122	NS-SQDup08-0405-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP123	NS-SOGP123-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP123	NS-SOGP123-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP123	NS-SOGP123-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP123	NS-SOGP123-6-8-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP123	NS-SOGP123-6-8-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP123	NS-SOGP123-6-8-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP123	NS-SQDup05-0405-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP123	NS-SQDup05-0405-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP123	NS-SQDup05-0405-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP124	NS-SOGP124-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP124	NS-SOGP124-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP124	NS-SOGP124-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP124	NS-SOGP124-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP124	NS-SOGP124-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP124	NS-SOGP124-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP125	NS-SOGP125-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP125	NS-SOGP125-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP125	NS-SOGP125-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP126	NS-SOGP126-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP126	NS-SOGP126-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP126	NS-SOGP126-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP126	NS-SOGP126-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP126	NS-SOGP126-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP126	NS-SOGP126-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP126	NS-SQDup09-0405-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP126	NS-SQDup09-0405-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP126	NS-SQDup09-0405-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP127	NS-SOGP127-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP127	NS-SOGP127-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP127	NS-SOGP127-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP128	NS-SOGP128-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP128	NS-SOGP128-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP128	NS-SOGP128-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP128	NS-SOGP128-4-6-042105	21-Apr-05	4 – 6	5

Table 1
Soil Sample Locations Used to Evaluate the Residential Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	GP128	NS-SOGP128-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP128	NS-SOGP128-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP129	NS-SOGP129-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP129	NS-SOGP129-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP129	NS-SOGP129-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP129	NS-SOGP129-5-7-042605	26-Apr-05	5 – 7	6
Filled Ravine	GP129	NS-SOGP129-5-7-042605	26-Apr-05	5 – 7	6
Filled Ravine	GP129	NS-SOGP129-5-7-042605	26-Apr-05	5 – 7	6
Filled Ravine	GP129	NS-SQDup10-0405-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP129	NS-SQDup10-0405-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP129	NS-SQDup10-0405-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP130	NS-SOGP130-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP130	NS-SOGP130-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP130	NS-SOGP130-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP130	NS-SOGP130-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP130	NS-SOGP130-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP130	NS-SOGP130-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP131	NS-SOGP131-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP131	NS-SOGP131-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP131	NS-SOGP131-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP131	NS-SOGP131-6-8-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP131	NS-SOGP131-6-8-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP131	NS-SOGP131-6-8-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP132	NS-SOGP132-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP132	NS-SOGP132-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP132	NS-SOGP132-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP132	NS-SOGP132-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP132	NS-SOGP132-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP132	NS-SOGP132-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP133	NS-SOGP133-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP133	NS-SOGP133-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP133	NS-SOGP133-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP133	NS-SOGP133-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP133	NS-SOGP133-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP133	NS-SOGP133-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP134	NS-SOGP134-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP134	NS-SOGP134-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP134	NS-SOGP134-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP135	NS-SOGP135-1-3 MS/MSD-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP135	NS-SOGP135-1-3 MS/MSD-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP135	NS-SOGP135-1-3 MS/MSD-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP136	NS-SOGP136-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP136	NS-SOGP136-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP136	NS-SOGP136-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP136	NS-SOGP136-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP136	NS-SOGP136-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP136	NS-SOGP136-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP137	NS-SOGP137-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP137	NS-SOGP137-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP137	NS-SOGP137-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP138	NS-SOGP138-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP138	NS-SOGP138-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP138	NS-SOGP138-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP138	NS-SOGP138-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP138	NS-SOGP138-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP138	NS-SOGP138-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP138	NS-SQDup06-0405-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP138	NS-SQDup06-0405-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP138	NS-SQDup06-0405-042105	21-Apr-05	4 – 6	5
Filled Ravine	MW-12	1079	22-Sep-98	2 – 4	3
Filled Ravine	MW-12	1099	23-Sep-98	2 – 4	3
Filled Ravine	MW-12	1099	23-Sep-98	2 – 4	3

Table 1
Soil Sample Locations Used to Evaluate the Residential Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	MW-12	1099	23-Sep-98	2 – 4	3
Filled Ravine	MW-9	1080	22-Sep-98	4.5 – 6.5	5.5
Filled Ravine	MW-9	1102	22-Sep-98	4.5 – 6.5	5.5
Filled Ravine	MW-9	1102	22-Sep-98	4.5 – 6.5	5.5
Filled Ravine	MW-9	1102	22-Sep-98	4.5 – 6.5	5.5
Filled Ravine	MW-9	1102	22-Sep-98	4.5 – 6.5	5.5
Filled Ravine	SB-5	1019	21-Dec-94	8 – 9	8.5
Filled Ravine	SB-5	1019	21-Dec-94	8 – 9	8.5
Filled Ravine	SB-5	1019	21-Dec-94	8 – 9	8.5
Filled Ravine	SB-5	972	21-Dec-94	8 – 9	8.5
Filled Ravine	SS24	NS-SS24-0-1-042905	29-Apr-05	0 – 1	0.5
Filled Ravine	SS24	NS-SS24-0-1-042905	29-Apr-05	0 – 1	0.5
Filled Ravine	SS24	NS-SS24-0-1-042905	29-Apr-05	0 – 1	0.5
Upper Bluff	B-26	1086	23-Sep-98	4.5 – 6.5	5.5
Upper Bluff	B-26	1106	23-Sep-98	4.5 – 6.5	5.5
Upper Bluff	B-26	1106	23-Sep-98	4.5 – 6.5	5.5
Upper Bluff	B-26	1106	23-Sep-98	4.5 – 6.5	5.5
Upper Bluff	B-27	1088	23-Sep-98	2 – 4	3
Upper Bluff	B-27	1092	23-Sep-98	7 – 9	8
Upper Bluff	B-27	1113	23-Sep-98	2 – 4	3
Upper Bluff	B-27	1113	23-Sep-98	2 – 4	3
Upper Bluff	B-27	1113	23-Sep-98	2 – 4	3
Upper Bluff	B-27	1115	23-Sep-98	7 – 9	8
Upper Bluff	B-27	1115	23-Sep-98	7 – 9	8
Upper Bluff	B-27	1115	23-Sep-98	7 – 9	8
Upper Bluff	B-28	1090	23-Sep-98	2 – 4	3
Upper Bluff	B-28	1111	23-Sep-98	2 – 4	3
Upper Bluff	B-28	1111	23-Sep-98	2 – 4	3
Upper Bluff	B-28	1111	23-Sep-98	2 – 4	3
Upper Bluff	B-29	1089	22-Sep-98	2 – 4	3
Upper Bluff	B-29	1114	22-Sep-98	2 – 4	3
Upper Bluff	B-29	1114	22-Sep-98	2 – 4	3
Upper Bluff	B-29	1114	22-Sep-98	2 – 4	3
Upper Bluff	B-30	1093	22-Sep-98	2 – 4	3
Upper Bluff	B-30	1118	22-Sep-98	2 – 4	3
Upper Bluff	B-30	1118	22-Sep-98	2 – 4	3

Table 1
Soil Sample Locations Used to Evaluate the Residential Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Upper Bluff	B-30	1118	22-Sep-98	2 – 4	3
Upper Bluff	B-31	1094	23-Sep-98	2 – 4	3
Upper Bluff	B-31	1095	23-Sep-98	7 – 9	8
Upper Bluff	B-31	1117	23-Sep-98	7 – 9	8
Upper Bluff	B-31	1117	23-Sep-98	7 – 9	8
Upper Bluff	B-31	1117	23-Sep-98	7 – 9	8
Upper Bluff	B-31	1122	23-Sep-98	2 – 4	3
Upper Bluff	B-31	1122	23-Sep-98	2 – 4	3
Upper Bluff	B-31	1122	23-Sep-98	2 – 4	3
Upper Bluff	B-31	1122	23-Sep-98	2 – 4	3
Upper Bluff	B-35	1014	24-Aug-98	8 – 10	9
Upper Bluff	B-35	1014	24-Aug-98	8 – 10	9
Upper Bluff	B-35	1014	24-Aug-98	8 – 10	9
Upper Bluff	B-36	1012	23-Aug-98	3 – 5	4
Upper Bluff	B-36	1012	23-Aug-98	3 – 5	4
Upper Bluff	B-36	1012	23-Aug-98	3 – 5	4
Upper Bluff	GP-43	GP-43_6/10/02_(6-8)Grab_NM	10-Jun-02	6 – 8	7
Upper Bluff	GP-43	GP-43_6/10/02_(6-8)Grab_NM	10-Jun-02	6 – 8	7
Upper Bluff	GP-43	GP-43_6/10/02_(6-8)Grab_NM	10-Jun-02	6 – 8	7
Upper Bluff	MW-11	1075	21-Sep-98	7 – 9	8
Upper Bluff	MW-11	1104	21-Sep-98	7 – 9	8
Upper Bluff	MW-11	1104	21-Sep-98	7 – 9	8
Upper Bluff	MW-11	1104	21-Sep-98	7 – 9	8
Upper Bluff	MW-15	1078	21-Sep-98	2 – 4	3
Upper Bluff	MW-15	1101	21-Sep-98	2 – 4	3
Upper Bluff	MW-15	1101	21-Sep-98	2 – 4	3
Upper Bluff	MW-15	1101	21-Sep-98	2 – 4	3
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5

[1] The domain is the associated SWMU or domain the sample falls within. There are 4 domains that were evaluated for the Site. Figure 3 illustrates each domain.

- Chequamegon Bay
- Filled Ravine
- Kreher Park
- Upper Bluff

[2] The residential scenario assumes that soil exposures are limited to depths of 0 to 10 feet below ground surface.

Table 2
Soil Sample Locations Used to Evaluate the Recreational Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Kreher Park	SS-10	922	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-10	982	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-10	982	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-10	982	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS11	NS-SS11-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	SS11	NS-SS11-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	SS11	NS-SS11-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	SS12	NS-SS12-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS12	NS-SS12-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS12	NS-SS12-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS13	NS-SS13-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS13	NS-SS13-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS13	NS-SS13-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS-2	1007	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-2	998	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-2	998	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-2	998	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	1008	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	999	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	999	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	999	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1000	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1000	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1000	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1009	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	1001	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	1001	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	1001	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	917	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	1002	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	1002	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	1002	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	918	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	1003	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	1003	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	1003	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	919	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	1004	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	1004	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	1004	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	920	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	1005	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	1005	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	1005	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	921	06-Nov-97	0 – 0.67	0.335
Kreher Park	TP100	NS-SOTP100-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP100	NS-SOTP100-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP100	NS-SOTP100-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP101	NS-SOTP101-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP101	NS-SOTP101-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP101	NS-SOTP101-0-1-060805	08-Jun-05	0 – 1	0.5

Table 2
Soil Sample Locations Used to Evaluate the Recreational Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Kreher Park	TP102	NS-SOTP102-0-1 (MS/MSD)-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP102	NS-SOTP102-0-1 (MS/MSD)-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP102	NS-SOTP102-0-1 (MS/MSD)-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP103	NS-SOTP103-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP103	NS-SOTP103-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP103	NS-SOTP103-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP104	NS-SOTP104-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP104	NS-SOTP104-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP104	NS-SOTP104-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SOTP105-0-1-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SOTP105-0-1-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SOTP105-0-1-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SQDup02-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SQDup02-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SQDup02-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP106	NS-SOTP106-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP106	NS-SOTP106-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP106	NS-SOTP106-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP107	NS-SOTP107-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP107	NS-SOTP107-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP107	NS-SOTP107-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SOTP108-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SOTP108-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SOTP108-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SQDup01-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SQDup01-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SQDup01-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP109	NS-SOTP109-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP109	NS-SOTP109-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP109	NS-SOTP109-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP110	NS-SOTP110-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP110	NS-SOTP110-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP110	NS-SOTP110-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP111	NS-SOTP111-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP111	NS-SOTP111-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP111	NS-SOTP111-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP112	NS-SOTP112-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP112	NS-SOTP112-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP112	NS-SOTP112-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SOTP113-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SOTP113-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SOTP113-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SQDup03-0605-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SQDup03-0605-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SQDup03-0605-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP114	NS-SOTP114-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP114	NS-SOTP114-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP114	NS-SOTP114-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP115	NS-SOTP115-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP115	NS-SOTP115-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP115	NS-SOTP115-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP116	NS-SOTP116-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP116	NS-SOTP116-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP116	NS-SOTP116-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP117	NS-SOTP117-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP117	NS-SOTP117-0-1-061305	13-Jun-05	0 – 1	0.5

Table 2
Soil Sample Locations Used to Evaluate the Recreational Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Kreher Park	TP117	NS-SOTP117-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP118	NS-SOTP118-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP118	NS-SOTP118-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP118	NS-SOTP118-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP119	NS-SOTP119-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP119	NS-SOTP119-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP119	NS-SOTP119-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP120	NS-SOTP120-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP120	NS-SOTP120-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP120	NS-SOTP120-0-1-061405	14-Jun-05	0 – 1	0.5

[1] The domain is the associated SWMU or domain the sample falls within. There are 4 domains that were evaluated for the Site. Figure 3 illustrates each domain.

- Chequamegon Bay
- Filled Ravine
- Kreher Park
- Upper Bluff

[2] The recreational scenario assumes that soil exposures are non-intrusive and are limited to depths of 0 to 1 feet.

Table 3
Soil Sample Locations Used to Evaluate the Industrial Worker Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	SS24	NS-SS24-0-1-042905	29-Apr-05	0 – 1	0.5
Filled Ravine	SS24	NS-SS24-0-1-042905	29-Apr-05	0 – 1	0.5
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5

[1] The domain is the associated SWMU or domain the sample falls within. There are 4 domains that were evaluated for the Site. Figure 3 illustrates each domain.

- Chequamegon Bay
- Filled Ravine
- Kreher Park
- Upper Bluff

[2] The industrial worker scenario assumes that soil exposures are non-intrusive and are limited to depths of 0 to 1 feet.

Table 4
Soil Sample Locations Used to Evaluate the Maintenance Worker Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	SS24	NS-SS24-0-1-042905	29-Apr-05	0 – 1	0.5
Filled Ravine	SS24	NS-SS24-0-1-042905	29-Apr-05	0 – 1	0.5
Kreher Park	SS-10	922	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-10	982	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-10	982	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-10	982	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS11	NS-SS11-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	SS11	NS-SS11-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	SS11	NS-SS11-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	SS12	NS-SS12-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS12	NS-SS12-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS12	NS-SS12-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS13	NS-SS13-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS13	NS-SS13-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS13	NS-SS13-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS-2	1007	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-2	998	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-2	998	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-2	998	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	1008	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	999	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	999	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	999	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1000	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1000	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1000	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1009	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	1001	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	1001	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	1001	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	917	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	1002	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	1002	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	1002	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	918	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	1003	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	1003	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	1003	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	919	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	1004	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	1004	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	1004	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	920	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	1005	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	1005	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	1005	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	921	06-Nov-97	0 – 0.67	0.335
Kreher Park	TP100	NS-SOTP100-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP100	NS-SOTP100-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP100	NS-SOTP100-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP101	NS-SOTP101-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP101	NS-SOTP101-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP101	NS-SOTP101-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP102	NS-SOTP102-0-1 (MS/MSD)-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP102	NS-SOTP102-0-1 (MS/MSD)-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP102	NS-SOTP102-0-1 (MS/MSD)-060905	09-Jun-05	0 – 1	0.5

Table 4
Soil Sample Locations Used to Evaluate the Maintenance Worker Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Kreher Park	TP103	NS-SOTP103-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP103	NS-SOTP103-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP103	NS-SOTP103-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP104	NS-SOTP104-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP104	NS-SOTP104-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP104	NS-SOTP104-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SOTP105-0-1-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SOTP105-0-1-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SOTP105-0-1-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SQDup02-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SQDup02-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SQDup02-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP106	NS-SOTP106-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP106	NS-SOTP106-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP106	NS-SOTP106-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP107	NS-SOTP107-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP107	NS-SOTP107-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP107	NS-SOTP107-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SOTP108-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SOTP108-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SOTP108-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SQDup01-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SQDup01-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SQDup01-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP109	NS-SOTP109-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP109	NS-SOTP109-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP109	NS-SOTP109-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP110	NS-SOTP110-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP110	NS-SOTP110-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP110	NS-SOTP110-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP111	NS-SOTP111-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP111	NS-SOTP111-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP111	NS-SOTP111-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP112	NS-SOTP112-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP112	NS-SOTP112-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP112	NS-SOTP112-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SOTP113-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SOTP113-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SOTP113-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SQDup03-0605-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SQDup03-0605-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SQDup03-0605-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP114	NS-SOTP114-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP114	NS-SOTP114-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP114	NS-SOTP114-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP115	NS-SOTP115-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP115	NS-SOTP115-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP115	NS-SOTP115-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP116	NS-SOTP116-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP116	NS-SOTP116-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP116	NS-SOTP116-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP117	NS-SOTP117-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP117	NS-SOTP117-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP117	NS-SOTP117-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP118	NS-SOTP118-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP118	NS-SOTP118-0-1-061305	13-Jun-05	0 – 1	0.5

Table 4
Soil Sample Locations Used to Evaluate the Maintenance Worker Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Kreher Park	TP118	NS-SOTP118-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP119	NS-SOTP119-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP119	NS-SOTP119-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP119	NS-SOTP119-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP120	NS-SOTP120-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP120	NS-SOTP120-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP120	NS-SOTP120-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5

[1] The domain is the associated SWMU or domain the sample falls within. There are 4 domains that were evaluated for the Site. Figure 3 illustrates each domain.

- Chequamegon Bay
- Filled Ravine
- Kreher Park
- Upper Bluff

[2] The maintenance worker scenario assumes that soil exposures are non-intrusive and are limited to depths of 0 to 1 feet.

Table 5
Soil Sample Locations Used to Evaluate the Construction Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	B-13	928	26-Apr-95	0 – 7	3.5
Filled Ravine	B-13	966	26-Apr-95	0 – 7	3.5
Filled Ravine	B-23	1076	23-Sep-98	2 – 4	3
Filled Ravine	B-23	1103	23-Sep-98	2 – 4	3
Filled Ravine	B-24	1083	23-Sep-98	2 – 4	3
Filled Ravine	B-24	1110	23-Sep-98	2 – 4	3
Filled Ravine	B-25	1081	23-Sep-98	4.5 – 6.5	5.5
Filled Ravine	B-25	1107	23-Sep-98	4.5 – 6.5	5.5
Filled Ravine	B-25	1107	23-Sep-98	4.5 – 6.5	5.5
Filled Ravine	GP101	NS-SOGP101-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP101	NS-SOGP101-6-8-041905	19-Apr-05	6 – 8	7
Filled Ravine	GP101	NS-SQDup01-0405-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP103	NS-SOGP103-2-4-042705	27-Apr-05	2 – 4	3
Filled Ravine	GP103	NS-SOGP103-6-8-042705	27-Apr-05	6 – 8	7
Filled Ravine	GP104	NS-SOGP104-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP104	NS-SOGP104-4-6-041905	19-Apr-05	4 – 6	5
Filled Ravine	GP105	NS-SOGP105-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP105	NS-SQDup03-0405-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP106	NS-SOGP106-3-4-041905	19-Apr-05	3 – 4	3.5
Filled Ravine	GP107	NS-SOGP107-1-3, MS/MSD-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP107	NS-SOGP107-6-8-042005	20-Apr-05	6 – 8	7
Filled Ravine	GP108	NS-SOGP108-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP108	NS-SOGP108-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP109	NS-SOGP109-2-4-041905	19-Apr-05	2 – 4	3
Filled Ravine	GP109	NS-SOGP109-6-8-041905	19-Apr-05	6 – 8	7
Filled Ravine	GP110	NS-SOGP110-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP110	NS-SOGP110-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP111	NS-SOGP111-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP111	NS-SOGP111-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP112	NS-SOGP112-1-3-041905	19-Apr-05	1 – 3	2
Filled Ravine	GP112	NS-SOGP112-3-4-041905	19-Apr-05	3 – 4	3.5
Filled Ravine	GP113	NS-SOGP113-1-3-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP113	NS-SOGP113-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP113	NS-SQDup02-0405-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP114	NS-SOGP114-1-3 MS/MSD-042005	20-Apr-05	1 – 3	2
Filled Ravine	GP114	NS-SOGP114-4-6-042005	20-Apr-05	4 – 6	5
Filled Ravine	GP115	NS-SOGP115-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP115	NS-SOGP115-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP116	NS-SOGP116-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP116	NS-SOGP116-8-10-042005	20-Apr-05	8 – 10	9
Filled Ravine	GP117	NS-SOGP117-2-4-042005	20-Apr-05	2 – 4	3
Filled Ravine	GP117	NS-SOGP117-6-8-042005	20-Apr-05	6 – 8	7
Filled Ravine	GP118	NS-SOGP118-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP118	NS-SOGP118-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP119	NS-SOGP119-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP119	NS-SOGP119-4-6-042505	25-Apr-05	4 – 6	5
Filled Ravine	GP120	NS-SOGP120-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP120	NS-SOGP120-4-6 MS/MSD-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP121	NS-SOGP121-1-3 MS/MSD-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP121	NS-SOGP121-4-6-042505	25-Apr-05	4 – 6	5
Filled Ravine	GP121	NS-SOGP121-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP122	NS-SOGP122-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP122	NS-SOGP122-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP122	NS-SQDup08-0405-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP123	NS-SOGP123-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP123	NS-SOGP123-6-8-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP123	NS-SQDup05-0405-042105	21-Apr-05	6 – 8	7

Table 5
Soil Sample Locations Used to Evaluate the Construction Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Filled Ravine	GP124	NS-SOGP124-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP124	NS-SOGP124-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP125	NS-SOGP125-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP126	NS-SOGP126-1-3-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP126	NS-SOGP126-6-8-042505	25-Apr-05	6 – 8	7
Filled Ravine	GP126	NS-SQDup09-0405-042505	25-Apr-05	1 – 3	2
Filled Ravine	GP127	NS-SOGP127-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP128	NS-SOGP128-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP128	NS-SOGP128-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP129	NS-SOGP129-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP129	NS-SOGP129-5-7-042605	26-Apr-05	5 – 7	6
Filled Ravine	GP129	NS-SQDup10-0405-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP130	NS-SOGP130-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP130	NS-SOGP130-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP131	NS-SOGP131-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP131	NS-SOGP131-6-8-042105	21-Apr-05	6 – 8	7
Filled Ravine	GP132	NS-SOGP132-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP132	NS-SOGP132-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP133	NS-SOGP133-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP133	NS-SOGP133-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP134	NS-SOGP134-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP135	NS-SOGP135-1-3 MS/MSD-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP136	NS-SOGP136-1-3-042605	26-Apr-05	1 – 3	2
Filled Ravine	GP136	NS-SOGP136-4-6-042605	26-Apr-05	4 – 6	5
Filled Ravine	GP137	NS-SOGP137-0-2-042105	21-Apr-05	0 – 2	1
Filled Ravine	GP138	NS-SOGP138-1-3-042105	21-Apr-05	1 – 3	2
Filled Ravine	GP138	NS-SOGP138-4-6-042105	21-Apr-05	4 – 6	5
Filled Ravine	GP138	NS-SQDup06-0405-042105	21-Apr-05	4 – 6	5
Filled Ravine	MW-12	1079	22-Sep-98	2 – 4	3
Filled Ravine	MW-12	1099	23-Sep-98	2 – 4	3
Filled Ravine	MW-9	1080	22-Sep-98	4.5 – 6.5	5.5
Filled Ravine	MW-9	1102	22-Sep-98	4.5 – 6.5	5.5
Filled Ravine	MW-9	1102	22-Sep-98	4.5 – 6.5	5.5
Filled Ravine	SB-5	1019	21-Dec-94	8 – 9	8.5
Filled Ravine	SB-5	972	21-Dec-94	8 – 9	8.5
Filled Ravine	SS24	NS-SS24-0-1-042905	29-Apr-05	0 – 1	0.5
Kreher Park	B-32	1097	22-Sep-98	4.5 – 6.5	5.5
Kreher Park	B-32	1119	22-Sep-98	4.5 – 6.5	5.5
Kreher Park	GP139	NS-SOGP139-0-2-042205	22-Apr-05	0 – 2	1
Kreher Park	GP140	NS-SOGP140-1-3-042205	22-Apr-05	1 – 3	2
Kreher Park	GP141	NS-SOGP141-0-2-042205	22-Apr-05	0 – 2	1
Kreher Park	GP142	NS-SOGP142-0-2-042205	22-Apr-05	0 – 2	1
Kreher Park	GP143	NS-SOGP143-0-2-042205	22-Apr-05	0 – 2	1
Kreher Park	GP143	NS-SOGP143-6-8-042205	22-Apr-05	6 – 8	7
Kreher Park	GP144	NS-SOGP144-4-6-042805	28-Apr-05	4 – 6	5
Kreher Park	GP145	NS-SOGP145-2-4-042805	28-Apr-05	2 – 4	3
Kreher Park	GP145	NS-SQDup13-0405-042805	28-Apr-05	2 – 4	3
Kreher Park	GP146	NS-SOGP146-0-3-042805	28-Apr-05	0 – 3	1.5
Kreher Park	GP147	NS-SOGP147-2-4-042705	27-Apr-05	2 – 4	3
Kreher Park	GP148	NS-SOGP148-1-3-042705	27-Apr-05	1 – 3	2
Kreher Park	GP148	NS-SQDup12-0405-042705	27-Apr-05	1 – 3	2
Kreher Park	GP149	NS-SOGP149-1-3 MS/MSD-042805	28-Apr-05	1 – 3	2
Kreher Park	GP150	NS-SOGP150-0-2-042805	28-Apr-05	0 – 2	1
Kreher Park	GP151	NS-SOGP151-1-3-042705	27-Apr-05	1 – 3	2
Kreher Park	GP152	NS-SOGP152-2-4-042705	27-Apr-05	2 – 4	3
Kreher Park	GP152	NS-SQDup11-0405-042705	27-Apr-05	2 – 4	3
Kreher Park	GP153	NS-SOGP153-1-3-042705	27-Apr-05	1 – 3	2

Table 5
Soil Sample Locations Used to Evaluate the Construction Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Kreher Park	GP154	NS-SOGP154-2-4-042705	27-Apr-05	2 – 4	3
Kreher Park	GP155	NS-SOGP155-1-3-042805	28-Apr-05	1 – 3	2
Kreher Park	GP155	NS-SOGP155-5-7-042805	28-Apr-05	5 – 7	6
Kreher Park	GP156	NS-SOGP156-0-2-042805	28-Apr-05	0 – 2	1
Kreher Park	GP156	NS-SOGP156-4-6-042805	28-Apr-05	4 – 6	5
Kreher Park	GP157	NS-SOGP157-1-3-042705	27-Apr-05	1 – 3	2
Kreher Park	GP158	NS-SOGP158-0-2-042705	27-Apr-05	0 – 2	1
Kreher Park	HP-1	923	10-Dec-97	0 – 4	2
Kreher Park	HP-1	983	10-Dec-97	0 – 4	2
Kreher Park	HP-13	909	10-Dec-97	0 – 4	2
Kreher Park	HP-13	988	10-Dec-97	0 – 4	2
Kreher Park	HP-14	910	10-Dec-97	0 – 4	2
Kreher Park	HP-14	989	10-Dec-97	0 – 4	2
Kreher Park	HP-15	911	10-Dec-97	0 – 4	2
Kreher Park	HP-15	990	10-Dec-97	0 – 4	2
Kreher Park	HP-16	912	10-Dec-97	0 – 4	2
Kreher Park	HP-16	991	10-Dec-97	0 – 4	2
Kreher Park	HP-17	913	10-Dec-97	0 – 4	2
Kreher Park	HP-17	992	10-Dec-97	0 – 4	2
Kreher Park	HP-18	914	11-Dec-97	0 – 4	2
Kreher Park	HP-18	993	11-Dec-97	0 – 4	2
Kreher Park	HP-19	915	11-Dec-97	0 – 4	2
Kreher Park	HP-19	994	11-Dec-97	0 – 4	2
Kreher Park	HP-2	924	10-Dec-97	0 – 4	2
Kreher Park	HP-2	984	10-Dec-97	0 – 4	2
Kreher Park	HP-20	916	11-Dec-97	0 – 4	2
Kreher Park	HP-20	995	11-Dec-97	0 – 4	2
Kreher Park	HP-21	926	11-Dec-97	0 – 4	2
Kreher Park	HP-21	996	11-Dec-97	0 – 4	2
Kreher Park	HP-3	925	11-Dec-97	0 – 4	2
Kreher Park	HP-3	985	11-Dec-97	0 – 4	2
Kreher Park	HP-4	907	11-Dec-97	0 – 2	1
Kreher Park	HP-4	986	11-Dec-97	0 – 2	1
Kreher Park	HP-7	908	11-Dec-97	0 – 2	1
Kreher Park	HP-7	987	11-Dec-97	0 – 2	1
Kreher Park	SS-10	922	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-10	982	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS11	NS-SS11-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	SS12	NS-SS12-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS13	NS-SS13-0-1-060705	07-Jun-05	0 – 1	0.5
Kreher Park	SS-2	1007	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-2	998	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	1008	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-3	999	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1000	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-4	1009	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	1001	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-5	917	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	1002	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-6	918	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	1003	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-7	919	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	1004	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-8	920	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	1005	06-Nov-97	0 – 0.67	0.335
Kreher Park	SS-9	921	06-Nov-97	0 – 0.67	0.335
Kreher Park	TP-1	1030	07-Sep-94	5 – 7	6

Table 5
Soil Sample Locations Used to Evaluate the Construction Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Kreher Park	TP-1	1123	07-Sep-94	5 – 7	6
Kreher Park	TP-1	973	07-Sep-94	5 – 7	6
Kreher Park	TP100	NS-SOTP100-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP100	NS-SOTP100-5	08-Jun-05	4.5 – 5	4.75
Kreher Park	TP100	NS-SOTP100-5-AD	08-Jun-05	4.5 – 5	4.75
Kreher Park	TP101	NS-SOTP101-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP102	NS-SOTP102-0-1 (MS/MSD)-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP103	NS-GWTP103-0605	08-Jun-05	6.5 – 7	6.75
Kreher Park	TP103	NS-SOTP103-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP104	NS-SOTP104-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SOTP105-0-1-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP105	NS-SQDup02-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP106	NS-SOTP106-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP106	NS-SOTP106-6	07-Jun-05	5.5 – 6	5.75
Kreher Park	TP107	NS-GWTP107-0605	08-Jun-05	7.5 – 8	7.75
Kreher Park	TP107	NS-SOTP107-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP107	NS-SOTP107-8	08-Jun-05	7.5 – 8	7.75
Kreher Park	TP107	NS-SOTP107-8-AD	08-Jun-05	7.5 – 8	7.75
Kreher Park	TP108	NS-SOTP108-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP108	NS-SOTP108-PIPE	07-Jun-05	4.5 – 5	4.75
Kreher Park	TP108	NS-SQDup01-0605-060905	09-Jun-05	0 – 1	0.5
Kreher Park	TP109	NS-SOTP109-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP109	NS-SOTP109-2	07-Jun-05	2.5 – 3	2.75
Kreher Park	TP109	NS-SOTP109-2-AD	07-Jun-05	2.5 – 3	2.75
Kreher Park	TP110	NS-GWTP110-0605	09-Jun-05	3.5 – 4	3.75
Kreher Park	TP110	NS-SOTP110-0-1-060805	08-Jun-05	0 – 1	0.5
Kreher Park	TP110	NS-SOTP110-4	09-Jun-05	3.5 – 4	3.75
Kreher Park	TP111	NS-SOTP111-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP111	NS-SOTP111-6	09-Jun-05	5.5 – 6	5.75
Kreher Park	TP112	NS-GWTP112-0605	15-Jun-05	4.5 – 5	4.75
Kreher Park	TP112	NS-SOTP112-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP112	NS-SOTP112-5	15-Jun-05	4.5 – 5	4.75
Kreher Park	TP112	NS-SOTP112-5-AD	15-Jun-05	4.5 – 5	4.75
Kreher Park	TP113	NS-SOTP113-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP113	NS-SOTP113-4	15-Jun-05	3.5 – 4	3.75
Kreher Park	TP113	NS-SQDup03-0605-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP114	NS-SOTP114-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP115	NS-SOTP115-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP115	NS-SOTP115-4	14-Jun-05	3.5 – 4	3.75
Kreher Park	TP115	NS-SOTP115-4-AD	14-Jun-05	3.5 – 4	3.75
Kreher Park	TP116	NS-SOTP116-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP116	NS-SOTP116-3	14-Jun-05	2.5 – 3	2.75
Kreher Park	TP117	NS-GWTP117-0605	13-Jun-05	4.5 – 5	4.75
Kreher Park	TP117	NS-SOTP117-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP118	NS-GWTP118-0605	13-Jun-05	3.5 – 4	3.75
Kreher Park	TP118	NS-SOTP118-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP118	NS-SOTP118-3	13-Jun-05	3.5 – 4	3.75
Kreher Park	TP119	NS-SOTP119-0-1-061305	13-Jun-05	0 – 1	0.5
Kreher Park	TP119	NS-SOTP119-5	14-Jun-05	4.5 – 5	4.75
Kreher Park	TP120	NS-SOTP120-0-1-061405	14-Jun-05	0 – 1	0.5
Kreher Park	TP124A	NSP-SO-TP124A-PIPE	02-Nov-05	4 – 4.5	4.25
Kreher Park	TP128	NSP-SO-TP128-PIPE	02-Nov-05	2 – 2.5	2.25
Kreher Park	TP128	NSP-SO-TP128-PIPE-AD	02-Nov-05	2 – 2.5	2.25
Kreher Park	TP130	NSP-SO-TP130-PIPE	02-Nov-05	4 – 4.5	4.25
Kreher Park	TP130	NSP-SO-TP130-PIPE-AD	02-Nov-05	4 – 4.5	4.25
Kreher Park	TP-2	1029	07-Sep-94	2 – 4	3
Kreher Park	TP-2	1061	07-Sep-94	6 – 8	7

Table 5
Soil Sample Locations Used to Evaluate the Construction Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Kreher Park	TP-2	1062	07-Sep-94	2 – 4	3
Kreher Park	TP-2	930	07-Sep-94	2 – 4	3
Kreher Park	TP-2	931	07-Sep-94	6 – 8	7
Kreher Park	TP-2	974	07-Sep-94	6 – 8	7
Kreher Park	TP-3	1027	07-Sep-94	2 – 4	3
Kreher Park	TP-3	1048	07-Sep-94	2 – 4	3
Kreher Park	TP-3	932	07-Sep-94	2 – 4	3
Kreher Park	TP-4	1040	07-Sep-94	4 – 6	5
Kreher Park	TP-4	1059	07-Sep-94	4 – 6	5
Kreher Park	TP-4	933	07-Sep-94	4 – 6	5
Kreher Park	TP-5	1025	07-Sep-94	6 – 8	7
Kreher Park	TP-5	1072	07-Sep-94	6 – 8	7
Kreher Park	TP-5	934	07-Sep-94	6 – 8	7
Kreher Park	TP-6	1024	07-Sep-94	5 – 7	6
Kreher Park	TP-6	1050	07-Sep-94	5 – 7	6
Kreher Park	TP-6	935	07-Sep-94	5 – 7	6
Kreher Park	TP-7	1023	07-Sep-94	2 – 4	3
Kreher Park	TP-7	1054	07-Sep-94	2 – 4	3
Kreher Park	TP-7	936	07-Sep-94	2 – 4	3
Kreher Park	TP-8	1043	07-Sep-94	5 – 7	6
Kreher Park	TP-8	1060	07-Sep-94	5 – 7	6
Kreher Park	TP-8	937	07-Sep-94	5 – 7	6
Kreher Park	TP-9	1042	07-Sep-94	2 – 4	3
Kreher Park	TP-9	1070	07-Sep-94	2 – 4	3
Kreher Park	TP-9	938	07-Sep-94	2 – 4	3
Kreher Park	TW-1	1044	06-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-1	1068	06-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-1	939	06-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-10	1036	08-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-10	1071	08-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-10	941	08-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-12	1033	08-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-12	1066	08-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-12	944	08-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-3	1028	06-Sep-94	7 – 9	8
Kreher Park	TW-3	1056	06-Sep-94	7 – 9	8
Kreher Park	TW-3	949	06-Sep-94	7 – 9	8
Kreher Park	TW-4	1046	07-Sep-94	7 – 9	8
Kreher Park	TW-4	950	07-Sep-94	7 – 9	8
Kreher Park	TW-4	977	07-Sep-94	7 – 9	8
Kreher Park	TW-6	1058	07-Sep-94	7 – 9	8
Kreher Park	TW-6	954	07-Sep-94	7 – 9	8
Kreher Park	TW-6	980	07-Sep-94	7 – 9	8
Kreher Park	TW-8	1038	07-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-8	1045	07-Sep-94	4.5 – 6.5	5.5
Kreher Park	TW-8	958	07-Sep-94	4.5 – 6.5	5.5
Upper Bluff	B-26	1086	23-Sep-98	4.5 – 6.5	5.5
Upper Bluff	B-26	1106	23-Sep-98	4.5 – 6.5	5.5
Upper Bluff	B-27	1088	23-Sep-98	2 – 4	3
Upper Bluff	B-27	1092	23-Sep-98	7 – 9	8
Upper Bluff	B-27	1113	23-Sep-98	2 – 4	3
Upper Bluff	B-27	1115	23-Sep-98	7 – 9	8
Upper Bluff	B-28	1090	23-Sep-98	2 – 4	3
Upper Bluff	B-28	1111	23-Sep-98	2 – 4	3
Upper Bluff	B-29	1089	22-Sep-98	2 – 4	3
Upper Bluff	B-29	1114	22-Sep-98	2 – 4	3
Upper Bluff	B-30	1093	22-Sep-98	2 – 4	3

Table 5
Soil Sample Locations Used to Evaluate the Construction Scenario

Domain[1]	Soil Sampling Location ID (Borhole ID)	Sample ID	Sample Date	Depth [2] (feet)	Average Depth (feet)
Upper Bluff	B-30	1118	22-Sep-98	2 – 4	3
Upper Bluff	B-31	1094	23-Sep-98	2 – 4	3
Upper Bluff	B-31	1095	23-Sep-98	7 – 9	8
Upper Bluff	B-31	1117	23-Sep-98	7 – 9	8
Upper Bluff	B-31	1122	23-Sep-98	2 – 4	3
Upper Bluff	B-31	1122	23-Sep-98	2 – 4	3
Upper Bluff	B-35	1014	24-Aug-98	8 – 10	9
Upper Bluff	B-36	1012	23-Aug-98	3 – 5	4
Upper Bluff	GP-43	GP-43_6/10/02_(6-8)Grab_NM	10-Jun-02	6 – 8	7
Upper Bluff	MW-11	1075	21-Sep-98	7 – 9	8
Upper Bluff	MW-11	1104	21-Sep-98	7 – 9	8
Upper Bluff	MW-15	1078	21-Sep-98	2 – 4	3
Upper Bluff	MW-15	1101	21-Sep-98	2 – 4	3
Upper Bluff	SS14	NS-SS14-0-1-060705	07-Jun-05	0 – 1	0.5
Upper Bluff	SS15	NS-SS15-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS16	NS-SS16-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS17	NS-SS17-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS18	NS-SS18-0-1-061405	14-Jun-05	0 – 1	0.5
Upper Bluff	SS19	NS-SS19-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS20	NS-SS20-0-1-060805	08-Jun-05	0 – 1	0.5
Upper Bluff	SS21	NS-SS21-0-1-060705	07-Jun-05	0 – 1	0.5

[1] The domain is the associated SWMU or domain the sample falls within. There are 4 domains that were evaluated for the Site. Figure 3 illustrates each domain.

- Chequamegon Bay
- Filled Ravine
- Kreher Park
- Upper Bluff

[2] The construction scenario assumes that soil exposures are limited to depths of 0 to 10 feet below ground surface

Table 6
Sediment Sample Locations Used to Evaluate the Recreational Scenario

Sediment Sampling Location ID	Domain[1]	Sample ID	Surface[2] Elevation	Sample Date	Sample Depth (feet)
2200N-1600E	Chequamegon Bay	732	601.00	3/5/2001	0 – 2
2250N-1400E	Chequamegon Bay	2250N-1400E_3/26/03_(0-0.5)Grab_NM	598.11	3/26/2003	0 – 0.5
2300N-1600E	Chequamegon Bay	741	596.18	3/5/2001	0 – 2
2300N-1700E	Chequamegon Bay	738	597.35	3/5/2001	0 – 2
2350N-1400E	Chequamegon Bay	2350N-1400E_3/26/03_(0-0.5)Grab_NM	596.22	3/26/2003	0 – 0.5
2400N-1200E	Chequamegon Bay	731	597.61	3/2/2001	0 – 2
2400N-1300E	Chequamegon Bay	736	596.52	3/2/2001	0 – 2
2400N-2000E	Chequamegon Bay	743	598.43	3/7/2001	0 – 2
2400N-2100E	Chequamegon Bay	354	598.01	1/15/1998	0 – 0.5
2400N-2100E	Chequamegon Bay	712	598.01	3/7/2001	0 – 2
2400N-2200E	Chequamegon Bay	727	598.41	3/7/2001	0 – 2
2400N-2300E	Chequamegon Bay	737	599.11	3/7/2001	0 – 2
2500N-2300E	Chequamegon Bay	2500N-2300E_3/26/03_(0-0.5)Grab_NM	596.60	3/26/2003	0 – 0.5
2600N-2400E	Chequamegon Bay	687	596.77	3/8/2001	0 – 2

[1] The domain is the associated SWMU or domain the sample falls within. There are 4 domains that were evaluated for the Site. Figure 3 illustrates each domain.

- Chequamegon Bay
- Filled Ravine
- Kreher Park
- Upper Bluff

[2] Surveyed elevation of land surface at or near sample. The Lake Superior water level is approximately 600 feet.

Table 7
Surface Water Sample Locations Used to Evaluate the Recreational Scenario

Surface Water Sample Location ID	Surface Water Sample ID	Sample Date	Start Depth	End Depth	Total Depth	Reference[1] Elevation (feet)	Comment
HHRA01	NSP-SW-HHRA01-0605-UNF-061805	6/18/2005	1.7	1.7	2.4	601.5	Low Energy Event
HHRA01	NSP-SW-WQ-DUP03-0605-UNF-061805	6/18/2005	1.7	1.7	3.7	601.5	Low Energy Event
HHRA02	NSP-SW-HHRA02-0605-UNF-061805	6/18/2005	1.35	1.35	4.6	601.5	Low Energy Event
HHRA03	NSP-SW-HHRA03-0605-UNF-061805	6/18/2005	1.2	1.2	5	601.5	Low Energy Event
HHRA04	NSP-SW-HHRA04-0605-UNF-061805	6/18/2005	1.85	1.85	3.4	601.5	Low Energy Event
HHRA04	NSP-SW-WQ-DUP04-0605-UNF-061805	6/18/2005	1.85	1.85	3.1	601.5	Low Energy Event
HHRA05	NSP-SW-HHRA05-0605-UNF-061805	6/18/2005	2.3	2.3	7.6	601.5	Low Energy Event
HHRA06	NSP-SW-HHRA06-0605-UNF-061805	6/18/2005	2.5	2.5	8.8	601.5	Low Energy Event
HHRA07	NSP-SW-HHRA07-0605-UNF-061805	6/18/2005	1.7	1.7	3.4	601.5	Low Energy Event
HHRA08	NSP-SW-HHRA08-0605-UNF-061805	6/18/2005	1.55	1.55	3.7	601.5	Low Energy Event
SW-4 2600N-2100E[2]	SW-4	1/15/1998	8	8	–	601.5	Low Energy Event
SW-7 2400N-2100E[2]	SW-7	1/15/1998	4	4	–	601.5	Low Energy Event
SW-8 2500N-1800E[2]	SW-8	1/15/1998	6	6	–	601.5	Low Energy Event
SW-9 2400N-1400E[2]	SW-9	5/14/1998	7	7	–	601.5	Low Energy Event
HHRA01	NSP-SW-HHRA1-1105-UNF-111405	11/14/2005	1.5	1.5	3	601.5	High Energy Event
HHRA02	NSP-SW-DUP02-1105-UNF-111405	11/14/2005	1.4	1.4	2.7	601.5	High Energy Event
HHRA02	NSP-SW-HHRA2-1105-UNF-111405	11/14/2005	1.4	1.4	2.7	601.5	High Energy Event
HHRA03	NSP-SW-HHRA3-1105-UNF-MSMSD-111505	11/15/2005	1.3	1.3	2.5	601.5	High Energy Event
HHRA04	NSP-SW-DUP04-1105-UNF-111505	11/15/2005	1.6	1.6	3.8	601.5	High Energy Event
HHRA04	NSP-SW-HHRA4-1105-UNF-111505	11/15/2005	1.6	1.6	3.8	601.5	High Energy Event
HHRA05	NSP-SW-HHRA5-1105-UNF-111505	11/15/2005	2.2	2.2	4.3	601.5	High Energy Event
HHRA06	NSP-SW-HHRA6-1105-UNF-111505	11/15/2005	2.5	2.5	5	601.5	High Energy Event
HHRA07	NSP-SW-HHRA7-1105-UNF-111505	11/15/2005	2	2	4	601.5	High Energy Event
HHRA08	NSP-SW-HHRA8-1105-UNF-111505	11/15/2005	1.7	1.7	3.3	601.5	High Energy Event

[1] Reference elevation is the water body elevation at time of sampling (in ft-msl).
[2] These surface water samples were collected through lake ice during a prolonged period of low energy within the water column. These samples may not represent chemical concentrations within water during and after period of heavy wave action.

Table 8
Air Sample Locations Used to Evaluate the Residential and Industrial Worker Scenario

Sample ID	Vapor or Air Location ID	Collection Method	Comment
Soil Gas Samples for Residential Scenario			
NS-GSVP05-0305	VP-05	Summa	
NS-GSVP06-0305	VP-06	Summa	
NS-GSVP07-0305	VP-07	Summa	
Indoor Air Samples for Industrial Worker Scenario			
NS-GSINDOOR-0405	Indoor	Summa	Indoor 24 hour air sample
NS-GSINDOOR-0705	Indoor	Summa	Indoor 24 hour air sample
Ambient Air Samples for Industrial Worker Scenario			
NS-GSUPWIND-0305	Upwind	Summa	Off-site ambient air
NS-GSUPWIND-0405	Upwind	Summa	Off-site ambient air
NS-GSUPWIND-0705	Upwind	Summa	Off-site ambient air

Table 9
Fish Tissue Samples Used to Evaluate the Fisher Scenario

Fish Species		
Walleye (*Stizostedion vitreum*)[a]	**Shorthead Redhorse (*Moxostoma macrolepidotum*)[b]**	**Smelt (*Osmerus mordax*)[c]**
Sample IDs		
SVITREUM-F-1-1	MMACROLEPIDOTUM-F-1-1	NS-TA-OMORDAX-F-2-1
SVITREUM-F-1-2	MMACROLEPIDOTUM-F-1-2	NS-TA-OMORDAX-F-2-2
SVITREUM-F-1-3	MMACROLEPIDOTUM-F-1-3	NS-TA-OMORDAX-F-2-3
SVITREUM-F-1-4	MMACROLEPIDOTUM-F-1-4	NS-TA-OMORDAX-F-2-4
SVITREUM-F-1-5	MMACROLEPIDOTUM-F-1-5	NS-TA-OMORDAX-F-2
SVITREUM-F-1-6	MMACROLEPIDOTUM-F-1-6	NS-TA-OMORDAX-F-1-1
SVITREUM-F-1-7	MMACROLEPIDOTUM-F-1-7	NS-TA-OMORDAX-F-1-2

All fish were collected from Chequamegon Bay.

a – Walleye were filleted (the skin was removed).
b – Shorthead redhorse were processed as for smoking or pickling, i.e. only the head and entrails were removed.
c – Whole fish composite samples of smelt were collected from Chequamegon Bay and prepared as if for frying, i.e. their heads and entrails removed.

Table 10
Selection of Chemicals of Potential Concern
Residential Receptors Exposed to Surface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Residential Soil PRG (mg/kg)	Basis	Exceeds?	Notes
Inorganics							
Antimony	1.2 - 2	0.41 - 1.3	9 / 86	3.13E+00	nc	No	
Arsenic	0.87 - 23.4	0.325 - 2.165	87 / 103	3.90E-01	ca	***Yes***	
Beryllium	0.071 - 7.5	0.065 - 0.465	81 / 95	1.54E+01	nc	No	
Cadmium	0.29 - 0.63	0.09 - 0.195	14 / 95	3.70E+00	nc	No	
Chromium (VI)	0.091 - 2.4	0.07 - 0.105	42 / 95	3.01E+01	ca	No	
Cyanide	0.097 - 32	0.0175 - 0.615	43 / 113	1.22E+02	nc	No	
Lead	6 - 4000	1.95 - 3.15	82 / 103	4.00E+01	nc	***Yes***	
Mercury	0.083 - 0.84	0.034 - 0.055	17 / 95	2.35E+00	nc	No	
Selenium	1.2 - 2.7	0.38 - 1.2	11 / 95	3.91E+01	nc	No	
Silver	0.87 - 3.5	0.175 - 0.385	2 / 95	3.91E+01	nc	No	
Thallium	1.5 - 1.8	0.485 - 1.05	2 / 86	5.16E-01	nc	***Yes***	
Zinc	5.5 - 402	0.95 - 3.65	107 / 112	2.35E+03	nc	No	
SVOCs							
1-Methylnaphthalene	0.051 - 3800	0.016 - 0.8	38 / 86	5.59E+01	surr	***Yes***	a
2,4-Dimethylphenol	8.2 - 8.2	0.00011 - 23	1 / 15	1.22E+02	nc	No	
2-Methylnaphthalene	0.0076 - 3300	0.0155 - 0.8	47 / 102	5.59E+01	surr	***Yes***	a
Acenaphthene	0.00059 - 670	0.016 - 19.5	33 / 101	3.68E+02	nc	***Yes***	
Acenaphthylene	0.084 - 910	0.00011 - 30.5	41 / 110	3.68E+03	surr	No	b
Anthracene	0.00047 - 750	0.019 - 19.5	39 / 110	2.19E+03	nc	No	
Benzo(a)anthracene	0.044 - 520	0.00011 - 34	50 / 102	6.21E-01	ca	***Yes***	
Benzo(a)pyrene	0.06 - 340	0.00011 - 34	50 / 104	6.21E-02	ca	***Yes***	
Benzo(b)fluoranthene	0.07 - 410	0.00011 - 37.5	50 / 102	6.21E-01	ca	***Yes***	
Benzo(e)pyrene	0.059 - 260	0.019 - 38	38 / 95	–	–	No	
Benzo(g,h,i)perylene	0.061 - 190	0.00011 - 32.5	36 / 111	2.32E+03	surr	No	c
Benzo(k)fluoranthene	0.045 - 170	0.00011 - 38	35 / 102	6.21E+00	ca	***Yes***	
Chrysene	0.059 - 470	0.00011 - 35.5	47 / 102	6.21E+01	ca	***Yes***	
Dibenzo(a,h)anthracene	0.12 - 3.8	0.00011 - 42.5	6 / 102	6.21E-02	ca	***Yes***	
Dibenzofuran	0.079 - 280	0.016 - 31.5	14 / 86	1.45E+01	nc	***Yes***	
Fluoranthene	0.047 - 1400	0.00011 - 1.5	57 / 103	2.29E+02	nc	***Yes***	
Fluorene	0.0015 - 1200	0.016 - 19.5	34 / 101	2.75E+02	nc	***Yes***	
Indeno(1,2,3-cd)pyrene	0.037 - 100	0.00011 - 39	32 / 102	6.21E-01	ca	***Yes***	
Naphthalene	0.00024 - 2900	0.0065 - 0.75	62 / 123	5.59E+00	nc	***Yes***	
o-Cresol	0.05 - 0.055	0.00011 - 32.5	2 / 110	3.06E+02	nc	No	
Phenanthrene	0.0054 - 3700	0.01 - 19.5	60 / 104	2.19E+03	nc	***Yes***	
Phenol	1.2 - 1.2	0.00011 - 35	1 / 110	1.83E+03	nc	No	
Pyrene	0.048 - 2000	0.00011 - 0.355	64 / 104	2.32E+02	nc	***Yes***	
VOCs							
1,2,3-Trimethylbenzene	0.037 - 37	0.0095 - 0.19	25 / 95	5.16E+01	surr	No	d
1,2,4-Trichlorobenzene	0.0097 - 120	0.05 - 25	7 / 16	6.22E+00	nc	***Yes***	
1,2,4-Trimethylbenzene	0.02 - 100	0.0075 - 0.0365	43 / 87	5.16E+00	nc	***Yes***	
1,3,5-Trimethylbenzene	0.0079 - 560	0.008 - 12.5	37 / 103	2.13E+00	nc	***Yes***	
Benzene	0.016 - 230	0.0025 - 3.8	49 / 104	6.43E-01	ca	***Yes***	
Ethylbenzene	0.014 - 170	0.0025 - 0.0385	40 / 98	3.95E+02	sat	No	
Isopropylbenzene	0.095 - 4.3	0.0135 - 25	4 / 16	5.72E+01	nc	No	
m & p-Xylenes	0.03 - 150	0.0125 - 1.25	40 / 96	2.71E+02	sat	No	
n-Butyl benzene	0.0094 - 17	0.0135 - 50	5 / 17	2.40E+02	sat	No	
n-Propyl benzene	0.13 - 14	0.0135 - 25	4 / 16	2.40E+02	sat	No	
o-Xylene	0.017 - 78	0.0065 - 0.032	45 / 95	2.71E+02	surr	No	e
p-Isopropyltoluene	0.072 - 1.8	0.025 - 25	5 / 16	5.70E+02	surr	No	f
sec-Butyl benzene	0.041 - 65	0.0095 - 50	9 / 111	2.20E+02	sat	No	
Styrene	1.3 - 13	0.0085 - 4.3	2 / 95	1.70E+03	sat	No	

Table 10
Selection of Chemicals of Potential Concern
Residential Receptors Exposed to Surface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Residential Soil PRG (mg/kg)	Basis	Exceeds?	Notes
Toluene	0.014 - 320	0.0025 - 2.65	85 / 113	5.20E+02	sat	No	
Xylenes (total)	0.046 - 320	0.0025 - 75	7 / 18	2.71E+01	nc	***Yes***	

Notes:

All units are milligrams per kilogram (mg/kg).

All non-detects are presented as one-half the detection limit.

PRG – Preliminary Remediation Goal

nc – PRG based on noncarcinogenic (systemic) effects
ca – PRG based on carcinogenic effects
sat – PRG based on the soil saturation concentration
SVOC – Semi-volatile organic compound
VOC – Volatile organic compound
surr – No toxicity information is available for this chemical. The value presented is a surrogate value selected based on structural similarities. The surrogates used are defined below.
a – Naphthalene used as a surrogate for 1-methylnaphthalene and 2-methylnaphthalene.
b – Acenaphthene used as a surrogate for acenaphthylene.
c – Pyrene used as a surrogate for benzo(g,h,i)perylene.
d – 1,2,4-Trimethyl benzene used as a surrogate for 1,2,3-trimethylbenzene.
e – Isopropylbenzene used as a surrogate for p-isopropyltoluene.
f – Total xylenes used as a surrogate for m-, o-, & p-xylenes.

Table 11
Selection of Chemicals of Potential Concern
Recreational Receptors Exposed to Surface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Residential Soil PRG (mg/kg)	Basis	Exceeds?	Notes
Inorganics							
Aluminum	870 - 14000	-	24 / 24	7.61E+03	nc	***Yes***	
Antimony	1.4 - 2.1	0.6 - 1.05	3 / 24	3.13E+00	nc	No	
Arsenic	1.3 - 13.9	0.47 - 0.7	30 / 33	3.90E-01	ca	***Yes***	
Barium	10 - 420	-	24 / 24	5.37E+02	nc	No	
Beryllium	0.1 - 8.3	1.7 - 1.7	23 / 24	1.54E+01	nc	No	
Cadmium	0.145 - 12	0.095 - 0.15	18 / 33	3.70E+00	nc	***Yes***	
Chromium	2.6 - 29	-	33 / 33	2.11E+02	ca	No	
Chromium (III)	2.6 - 29	-	24 / 24	1.00E+05	max	No	
Chromium (VI)	0.11 - 0.65	0.08 - 0.095	20 / 24	3.01E+01	ca	No	
Cobalt	0.91 - 12	-	24 / 24	9.03E+02	ca	No	
Copper	2.2 - 120	-	33 / 33	3.13E+02	nc	No	
Cyanide	0.055 - 1.4	0.05 - 0.06	11 / 25	1.22E+02	nc	No	
Iron	4100 - 94000	-	33 / 33	2.35E+03	nc	***Yes***	
Lead	5.2 - 950	2.25 - 2.25	32 / 33	4.00E+01	nc	***Yes***	
Manganese	100 - 670	-	24 / 24	1.76E+02	nc	***Yes***	
Mercury	0.13 - 0.8	0.01 - 0.044	14 / 33	2.35E+00	nc	No	
Nickel	2 - 33	-	24 / 24	1.56E+02	nc	No	
Selenium	1.4 - 2.1	0.55 - 1.2	3 / 24	3.91E+01	nc	No	
Silver	0.72 - 7.6	0.19 - 0.375	6 / 24	3.91E+01	nc	No	
Thallium	2.4 - 2.4	0.7 - 1.25	1 / 24	5.16E-01	nc	***Yes***	
Vanadium	8.9 - 63	-	24 / 24	7.82E+00	nc	***Yes***	
Zinc	4.3 - 4100	-	33 / 33	2.35E+03	nc	***Yes***	
SVOCs							
Acenaphthene	0.49 - 0.49	0.016 - 3.25	1 / 24	3.68E+02	nc	No	
Acenaphthylene	0.19 - 27	0.0155 - 0.75	7 / 25	3.68E+02	surr	No	a
Anthracene	0.68 - 1.6	0.019 - 3.85	2 / 24	2.19E+03	nc	No	
Benzo(a)anthracene	0.24 - 25	0.017 - 0.85	15 / 27	6.21E-01	ca	***Yes***	
Benzo(a)pyrene	0.29 - 68	0.01 - 0.85	16 / 33	6.21E-02	ca	***Yes***	
Benzo(b)fluoranthene	0.33 - 53	0.019 - 0.95	16 / 27	6.21E-01	ca	***Yes***	
Benzo(e)pyrene	0.25 - 49	0.019 - 0.95	11 / 24	-	-	No	
Benzo(g,h,i)perylene	0.165 - 57	0.0165 - 0.8	10 / 27	2.32E+02	surr	No	b
Benzo(k)fluoranthene	0.19 - 15	0.019 - 0.95	5 / 24	6.21E+00	ca	***Yes***	
Chrysene	0.27 - 32	0.018 - 0.9	14 / 27	6.21E+01	ca	No	
Fluoranthene	0.25 - 25	0.0185 - 0.95	16 / 27	2.29E+02	nc	No	
Fluorene	0.57 - 0.57	0.016 - 3.25	1 / 24	2.75E+02	nc	No	
Indeno(1,2,3-cd)pyrene	0.155 - 33	0.0155 - 0.8	9 / 27	6.21E-01	ca	***Yes***	
Naphthalene	0.04 - 2.144	0.01 - 3.05	6 / 33	5.59E+00	nc	No	
Phenanthrene	0.41 - 6.8	0.01 - 3.65	6 / 33	2.19E+03	surr	No	c
Pyrene	0.22 - 52	0.01 - 0.9	17 / 33	2.32E+02	nc	No	
VOCs							
1,2,4-Trichlorobenzene	0.035 - 0.302	-	3 / 3	6.22E+00	nc	No	
1,2,4-Trimethylbenzene	0.019 - 0.019	0.0075 - 0.0075	1 / 24	5.16E+00	nc	No	
1,3,5-Trimethylbenzene	0.077 - 0.114	0.008 - 0.008	2 / 26	2.13E+00	nc	No	
Benzene	0.023 - 0.495	0.0025 - 0.0075	3 / 33	6.43E-01	ca	No	
Ethylbenzene	0.025 - 0.301	0.0025 - 0.0075	4 / 33	3.95E+02	sat	No	
m & p-Xylenes	0.034 - 0.051	0.0125 - 0.0125	3 / 24	2.71E+01	surr	No	d
n-Butyl benzene	0.065 - 0.259	-	3 / 3	2.40E+02	sat	No	

Table 11
Selection of Chemicals of Potential Concern
Recreational Receptors Exposed to Surface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Residential Soil PRG (mg/kg)	Basis	Exceeds?	Notes
o-Xylene	0.016 - 0.029	0.0065 - 0.0065	3 / 24	2.71E+01	surr	No	d
p-Isopropyltoluene	0.047 - 0.075	-	2 / 2	5.70E+01	surr	No	e
Toluene	0.012 - 0.405	0.0025 - 0.0055	16 / 33	5.20E+02	sat	No	
Trichlorofluoromethane	0.038 - 0.046	-	3 / 3	3.86E+01	nc	No	
Xylenes (total)	0.029 - 1.104	0.0025 - 0.0025	6 / 9	2.71E+01	nc	No	

Notes:

All units are milligrams per kilogram (mg/kg).

All non-detects are presented as one-half the detection limit.

PRG – Preliminary Remediation Goal

nc – PRG based on noncarcinogenic (systemic) effects
ca – PRG based on carcinogenic effects
sat – PRG based on the soil saturation concentration
max – PRG based on a ceiling limit
SVOC – Semi-volatile organic compound
VOC – Volatile organic compound
surr – No toxicity information is available for this chemical. The value presented is a surrogate value selected based on structural similarities. The surrogates used are defined below.
a – Acenaphthene used as a surrogate for acenaphthylene.
b – Pyrene used as a surrogate for benzo(g,h,i)perylene.
c – Anthracene used as a surrogate for phenanthrene.
d – Total xylenes used as a surrogate for m-, o-, &p-xylenes.
e – Isopropylbenzene used as a surrogate for p-isopropyltoluene.

Table 12
Selection of Chemicals of Potential Concern
Industrial Worker Receptors Exposed to Surface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Industrial Soil PRG (mg/kg)	Basis	Exceeds?	Notes
Inorganics							
Antimony	1.8 - 1.9	0.5 - 0.75	2 / 12	4.09E+01	nc	No	
Arsenic	1.4 - 8.5	0.55 - 0.55	11 / 12	1.59E+00	ca	***Yes***	
Cadmium	0.36 - 0.62	0.11 - 0.145	4 / 12	4.51E+01	nc	No	
Chromium (VI)	0.16 - 0.33	0.08 - 0.09	8 / 12	6.40E+01	ca	No	
Cyanide	0.12 - 0.67	0.055 - 0.06	6 / 12	1.23E+03	nc	No	
Lead	22 - 440	2.8 - 2.8	11 / 12	8.00E+02	ca	No	
Mercury	0.083 - 0.4	0.034 - 0.0475	2 / 12	3.07E+01	nc	No	
SVOCs							
1-Methylnaphthalene	0.051 - 0.089	0.016 - 0.16	2 / 12	1.88E+02	surr	No	a
2-Methylnaphthalene	0.066 - 0.19	0.0155 - 0.155	3 / 12	1.88E+02	surr	No	a
Benzo(a)anthracene	0.082 - 0.35	0.017 - 0.17	6 / 12	2.11E+00	ca	No	
Benzo(a)pyrene	0.085 - 0.39	0.017 - 0.17	6 / 12	2.11E-01	ca	***Yes***	
Benzo(b)fluoranthene	0.12 - 0.56	0.019 - 0.19	7 / 12	2.11E+00	ca	No	
Benzo(e)pyrene	0.11 - 0.33	0.019 - 0.19	5 / 12	-	-	No	
Benzo(g,h,i)perylene	0.082 - 0.09	0.0165 - 0.165	4 / 12	2.91E+04	surr	No	b
Benzo(k)fluoranthene	0.07 - 0.21	0.019 - 0.19	3 / 12	2.11E+01	ca	No	
Chrysene	0.11 - 0.41	0.018 - 0.18	6 / 12	2.11E+02	ca	No	
Fluoranthene	0.15 - 0.77	0.0185 - 0.185	8 / 12	2.20E+03	nc	No	
Indeno(1,2,3-cd)pyrene	0.05 - 0.05	0.0155 - 0.155	1 / 12	2.11E+00	ca	No	
Naphthalene	0.051 - 0.051	0.0155 - 0.155	1 / 12	1.88E+01	nc	No	
o-Cresol	0.05 - 0.05	0.013 - 0.13	1 / 12	3.08E+03	nc	No	
Phenanthrene	0.1 - 0.62	0.0185 - 0.185	7 / 12	1.00E+05	max	No	
Pyrene	0.16 - 0.77	0.018 - 0.09	9 / 12	2.91E+03	nc	No	
VOCs							
1,2,4-Trimethylbenzene	0.02 - 0.043	0.0075 - 0.0075	2 / 12	1.70E+01	nc	No	
Ethylbenzene	0.02 - 0.02	0.0075 - 0.0075	1 / 12	3.95E+02	sat	No	
m & p-Xylenes	0.034 - 0.065	0.0125 - 0.0125	3 / 12	4.20E+02	sat	No	
o-Xylene	0.018 - 0.06	0.0065 - 0.0065	4 / 12	4.20E+02	surr	No	c
Toluene	0.014 - 2.1	0.0055 - 0.0055	7 / 12	5.20E+02	sat	No	

Notes:

All units are milligrams per kilogram (mg/kg).

PRG – preliminary remediation goal
surr – No toxicity information is available for this chemical. The value presented is a surrogate value selected based on structural similarities. The surrogates used are defined below.
nc – PRG based on noncarcinogenic (systemic) effects
ca – PRG based on carcinogenic effects
sat – PRG based on the soil saturation concentration
max – PRG based on a ceiling limit
a – Naphthalene used as a surrogate for 1-methylnaphthalene and 2-methylnaphthalene.
b – Pyrene used as a surrogate for benzo(g,h,i)perylene.
c – Total xylenes used as a surrogate for m-, o-, &p-xylenes.

Table 13
Selection of Chemicals of Potential Concern
Maintenance Worker Receptors Exposed to Surface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Industrial Soil PRG (mg/kg)	Basis	Exceeds?	Notes
Inorganics							
Aluminum	870 - 14000	-	33 / 33	1.00E+05	max	No	
Antimony	0.7 - 2.1	0.5 - 1.05	6 / 33	4.09E+01	nc	No	
Arsenic	1.3 - 13.9	0.47 - 0.7	38 / 42	1.59E+00	ca	***Yes***	
Barium	10 - 420	-	33 / 33	6.66E+03	nc	No	
Beryllium	0.1 - 8.3	1.7 - 1.7	32 / 33	1.94E+03	ca	No	
Cadmium	0.145 - 12	0.095 - 0.15	21 / 42	4.51E+01	nc	No	
Chromium	2.6 - 29	-	42 / 42	4.48E+02	ca	No	
Chromium (III)	2.6 - 29	-	33 / 33	1.00E+05	max	No	
Chromium (VI)	0.095 - 0.65	0.08 - 0.09	28 / 33	6.40E+01	ca	No	
Cobalt	0.91 - 12	-	33 / 33	1.92E+03	ca	No	
Copper	2.2 - 120	-	42 / 42	4.09E+03	nc	No	
Cyanide	0.055 - 1.4	0.05 - 0.06	15 / 34	1.23E+03	nc	No	
Iron	4100 - 94000	-	42 / 42	1.00E+05	max	No	
Lead	5.2 - 950	2.25 - 2.8	40 / 42	8.00E+01	nc	***Yes***	
Manganese	100 - 670	-	33 / 33	1.95E+03	nc	No	
Mercury	0.0385 - 0.8	0.01 - 0.044	16 / 42	3.07E+01	nc	No	
Nickel	2 - 33	-	33 / 33	2.04E+03	nc	No	
Selenium	1.4 - 2.1	0.47 - 1.2	3 / 33	5.11E+02	nc	No	
Silver	0.72 - 7.6	0.19 - 0.375	6 / 33	5.11E+02	nc	No	
Thallium	2.4 - 2.4	0.6 - 1.25	1 / 33	6.75E+00	nc	No	
Vanadium	8.9 - 63	-	33 / 33	1.02E+02	nc	No	
Zinc	4.3 - 4100	-	42 / 42	1.00E+05	max	No	
SVOCs							
1-Methylnaphthalene	0.051 - 0.051	0.016 - 3.15	1 / 33	3.08E+03	surr	No	a
2-Methylnaphthalene	0.066 - 0.19	0.0155 - 3.1	2 / 33	3.08E+03	surr	No	a
Acenaphthene	0.49 - 0.49	0.016 - 3.25	1 / 33	2.92E+03	nc	No	
Acenaphthylene	0.19 - 27	0.0155 - 0.75	7 / 34	2.92E+03	nc	No	
Anthracene	0.68 - 1.6	0.019 - 3.85	2 / 33	1.00E+05	max	No	
Benzo(a)anthracene	0.16 - 25	0.017 - 0.85	18 / 36	2.11E+00	ca	***Yes***	
Benzo(a)pyrene	0.17 - 68	0.01 - 0.85	19 / 42	2.11E-01	ca	***Yes***	
Benzo(b)fluoranthene	0.23 - 53	0.019 - 0.95	20 / 36	2.11E+00	ca	***Yes***	
Benzo(e)pyrene	0.14 - 49	0.019 - 0.95	14 / 33	-	-	No	
Benzo(g,h,i)perylene	0.082 - 57	0.0165 - 0.8	12 / 36	3.08E+03	surr	No	b
Benzo(k)fluoranthene	0.07 - 15	0.019 - 0.95	8 / 33	2.11E+01	ca	No	
Chrysene	0.18 - 32	0.018 - 0.9	17 / 36	2.11E+02	ca	No	
Fluoranthene	0.25 - 25	0.0185 - 0.95	21 / 36	2.20E+03	nc	No	
Fluorene	0.57 - 0.57	0.016 - 3.25	1 / 33	2.63E+03	nc	No	
Indeno(1,2,3-cd)pyrene	0.05 - 33	0.0155 - 0.8	10 / 36	2.11E+00	ca	***Yes***	
Naphthalene	0.04 - 2.144	0.01 - 3.05	7 / 42	1.88E+01	nc	No	
o-Cresol	0.05 - 0.05	0.013 - 2.6	1 / 33	3.08E+03	nc	No	
Phenanthrene	0.1 - 6.8	0.01 - 3.65	10 / 42	1.00E+05	surr	No	c
Pyrene	0.22 - 52	0.01 - 0.9	23 / 42	2.91E+03	nc	No	
VOCs							
1,2,4-Trichlorobenzene	0.035 - 0.302	-	3 / 3	2.16E+01	nc	No	
1,2,4-Trimethylbenzene	0.019 - 0.043	0.0075 - 0.0075	3 / 33	1.70E+01	nc	No	
1,3,5-Trimethylbenzene	0.077 - 0.114	0.008 - 0.008	2 / 35	6.97E+00	nc	No	

Table 13
Selection of Chemicals of Potential Concern
Maintenance Worker Receptors Exposed to Surface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Industrial Soil PRG (mg/kg)	Basis	Exceeds?	Notes
Benzene	0.023 - 0.495	0.0025 - 0.0075	3 / 42	1.41E+00	ca*	No	
Ethylbenzene	0.02 - 0.301	0.0025 - 0.0075	5 / 42	3.95E+02	sat	No	
m & p-Xylenes	0.034 - 0.065	0.0125 - 0.0125	5 / 33	1.41E+00	surr	No	d
n-Butyl benzene	0.065 - 0.259	-	3 / 3	2.40E+02	sat	No	
o-Xylene	0.016 - 0.06	0.0065 - 0.0065	5 / 33	3.95E+02	surr	No	d
p-Isopropyltoluene	0.047 - 0.075	-	2 / 2	1.98E+02	surr	No	e
Toluene	0.012 - 0.405	0.0025 - 0.0055	20 / 42	5.20E+02	sat	No	
Trichlorofluoromethane	0.038 - 0.046	-	3 / 3	2.00E+03	sat	No	
Xylenes (total)	0.029 - 1.104	0.0025 - 0.0025	6 / 9	4.20E+02	sat	No	

Notes:

All units are milligrams per kilogram (mg/kg).
All non-detects are presented as one-half the detection limit.

PRG – Preliminary Remediation Goal

nc – PRG based on noncarcinogenic (systemic) effects
ca – PRG based on carcinogenic effects
sat – PRG based on the soil saturation concentration
max – PRG based on a ceiling limit
SVOC – Semi-volatile organic compound
VOC – Volatile organic compound
surr – No toxicity information is available for this chemical. The value presented is a surrogate value selected based on structural similarities. The surrogates used are defined below.
a – Naphthalene used as a surrogate for 1-methylnaphthalene and 2-methylnaphthalene.
b – Pyrene used as a surrogate for benzo(g,h,i)perylene.
c – Anthracene used as a surrogate for phenanthrene.
c – Total xylenes used as a surrogate for m-, o-, &p-xylenes.
d – Isopropylbenzene used as a surrogate for p-isopropyltoluene.

Table 14
Selection of Chemicals of Potential Concern
Construction Worker Receptors Exposed to Surface and Subsurface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Industrial Soil PRG (mg/kg)	Basis	Exceeds?	Notes
Inorganics							
Aluminum	750 - 21000	-	124 / 124	1.00E+05	max	No	
Antimony	0.5 - 2.1	0.41 - 1.05	14 / 116	4.09E+01	nc	No	
Arsenic	0.83 - 23.4	0.325 - 2.165	126 / 165	1.59E+00	ca	***Yes***	
Barium	10 - 420	-	126 / 126	6.66E+03	nc	No	
Beryllium	0.071 - 11	0.07 - 1.7	110 / 124	1.94E+03	ca	No	
Cadmium	0.145 - 24.8	0.095 - 0.195	43 / 142	4.51E+01	nc	No	
Chromium	2.4 - 42	-	153 / 153	4.48E+02	ca	No	
Chromium (III)	2.1 - 38	-	124 / 124	1.00E+05	max	No	
Chromium (VI)	0.075 - 2.4	0.07 - 0.105	71 / 124	6.40E+01	ca	No	
Cobalt	0.91 - 14	-	124 / 124	1.92E+03	ca	No	
Copper	2.2 - 190	0.5 - 0.5	151 / 165	4.09E+03	nc	No	
Cyanide	0.055 - 25	0.0175 - 0.615	53 / 144	1.23E+03	nc	No	
Iron	3800 - 94000	-	151 / 151	1.00E+05	max	No	
Lead	3.32 - 4000	0.5 - 3.15	151 / 182	8.00E+01	nc	***Yes***	
Manganese	12 - 2000	-	124 / 124	1.95E+03	nc	***Yes***	
Mercury	0.0239 - 1.1	0.01 - 0.06	34 / 147	3.07E+01	nc	No	
Nickel	1.5 - 52	-	142 / 142	2.04E+03	nc	No	
Selenium	1.4 - 16.5	0.38 - 1.2	14 / 125	5.11E+02	nc	No	
Silver	0.245 - 7.6	0.185 - 0.385	12 / 124	5.11E+02	nc	No	
Thallium	1.5 - 2.4	0.485 - 1.25	3 / 124	6.75E+00	nc	No	
Vanadium	8.3 - 110	-	124 / 124	1.02E+02	nc	***Yes***	
Zinc	4.3 - 4100	0.5 - 3.65	146 / 165	1.00E+05	max	No	
SVOCs							
1-Methylnaphthalene	0.04 - 21000	0.016 - 3.15	63 / 150	1.88E+01	surr	***Yes***	a
2,3,5-Trimethylnaphthalene	0.057 - 1600	-	26 / 26	-		No	
2,4-Dimethylphenol	8.2 - 8.2	0.00011 - 23	1 / 16	1.23E+03	nc	No	
2,6-Dimethylnaphthalene	0.09 - 5600	-	26 / 26	-		No	
2-Methylnaphthalene	0.0076 - 30000	0.0155 - 3.1	85 / 178	1.88E+01	surr	***Yes***	a
Acenaphthene	0.00059 - 8200	0.016 - 19.5	76 / 180	2.92E+03	nc	***Yes***	
Acenaphthylene	0.045 - 9700	0.00011 - 30.5	89 / 180	2.92E+03	surr	***Yes***	b
Anthracene	0.00047 - 4100	0.019 - 19.5	83 / 180	1.00E+05	max	No	
Benzo(a)anthracene	0.0173 - 2400	0.00011 - 34	116 / 193	2.11E+00	ca	***Yes***	
Benzo(a)fluoranthene	0.55 - 640	-	26 / 26	-		No	
Benzo(a)pyrene	0.0219 - 1800	0.00011 - 34	118 / 209	2.11E-01	ca	***Yes***	
Benzo(b)fluoranthene	0.0149 - 1200	0.00011 - 37.5	118 / 192	2.11E+00	ca	***Yes***	
Benzo(b)fluorene	0.34 - 1100	-	26 / 26	-		No	
Benzo(e)pyrene	0.054 - 1200	0.019 - 38	77 / 150	-		No	
Benzo(g,h,i)perylene	0.0099 - 1200	0.00011 - 32.5	93 / 190	2.91E+03	surr	No	c
Benzo(k)fluoranthene	0.00669 - 1500	0.00011 - 38	87 / 185	2.11E+01	ca	***Yes***	
Biphenyl	0.038 - 1700	-	26 / 26	2.33E+03	nc	No	
Chrysene	0.0118 - 2300	0.00011 - 35.5	108 / 188	2.11E+02	ca	***Yes***	
Dibenzo(a,h)anthracene	0.12 - 290	0.00011 - 42.5	37 / 172	2.11E-01	ca	***Yes***	
Dibenzofuran	0.042 - 1400	0.016 - 31.5	41 / 150	1.56E+02	nc	***Yes***	
Fluoranthene	0.047 - 5400	0.00011 - 1.5	126 / 196	2.20E+03	nc	***Yes***	
Fluorene	0.0015 - 4600	0.016 - 19.5	80 / 183	2.63E+03	nc	***Yes***	
Hopane (T19)	0.18 - 6.8	0.15 - 1.85	15 / 26	-	surr	No	d
Indeno(1,2,3-cd)pyrene	0.0113 - 1200	0.00011 - 39	89 / 189	2.11E+00	ca	***Yes***	
m & p-cresols	0.045 - 47	0.0275 - 70	18 / 150	3.08E+04	surr	No	e
Naphthalene	0.00024 - 37000	0.0065 - 3.05	130 / 246	1.88E+01	nc	***Yes***	
o-Cresol	0.0076 - 22	0.00011 - 32.5	20 / 166	3.08E+03	nc	No	
Pentachlorophenol	0.011 - 1.8	0.016 - 1.4	11 / 26	9.00E+00	ca	No	
Phenanthrene	0.0054 - 14000	0.01 - 19.5	119 / 209	1.00E+05	surr	No	f
Phenol	0.022 - 9.8	0.00011 - 35	26 / 166	1.00E+05	max	No	
Pyrene	0.042 - 7600	0.00011 - 0.9	137 / 209	2.91E+03	nc	***Yes***	
Retene	0.16 - 12	0.105 - 1.8	12 / 26	-	surr	No	d
VOCs							
1,2,3-Trimethylbenzene	0.037 - 37	0.0095 - 0.19	23 / 124	1.70E+01	surr	***Yes***	g
1,2,4-Trichlorobenzene	0.0097 - 2994	0.05 - 25	21 / 31	2.16E+01	nc	***Yes***	

Table 14
Selection of Chemicals of Potential Concern
Construction Worker Receptors Exposed to Surface and Subsurface Soil

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Industrial Soil PRG (mg/kg)	Basis	Exceeds?	Notes
1,2,4-Trimethylbenzene	0.019 - 100	0.0075 - 0.0365	47 / 125	1.70E+01	nc	***Yes***	
1,3,5-Trimethylbenzene	0.0079 - 742	0.008 - 12.5	47 / 152	6.97E+00	nc	***Yes***	
Acetone	0.014 - 0.014	-	1 / 1	5.43E+03	nc	No	
Benzene	0.005 - 645	0.0025 - 3.8	68 / 183	1.41E+00	ca	***Yes***	
Ethylbenzene	0.014 - 2973	0.0025 - 0.0385	54 / 167	3.95E+02	sat	***Yes***	
Isopropylbenzene	0.029 - 190	0.0135 - 25	10 / 23	1.98E+02	nc	No	
m & p-Xylenes	0.028 - 150	0.0125 - 1.25	43 / 125	4.20E+02	surr	No	h
Methylene chloride	0.005 - 0.102	-	2 / 2	2.05E+01	ca	No	
n-Butyl benzene	0.0094 - 648	0.0135 - 50	18 / 31	2.40E+02	sat	***Yes***	
n-Propyl benzene	0.053 - 101	0.0135 - 25	11 / 24	2.40E+02	sat	No	
o-Xylene	0.016 - 78	0.0065 - 0.032	48 / 124	4.20E+02	surr	No	h
p-Isopropyltoluene	0.019 - 213	0.025 - 25	20 / 32	1.98E+02	surr	***Yes***	i
sec-Butyl benzene	0.03 - 2688	0.0095 - 50	10 / 143	2.20E+02	sat	***Yes***	
Styrene	0.023 - 13	0.0085 - 4.3	3 / 124	1.70E+03	sat	No	
Toluene	0.0055 - 2007	0.0025 - 2.65	122 / 183	5.20E+02	sat	***Yes***	
Trichlorofluoromethane	0.038 - 0.046	-	3 / 3	2.00E+03	sat	No	
Xylenes (total)	0.029 - 4981	0.0025 - 75	24 / 59	4.20E+02	sat	***Yes***	

Notes:

All units are milligrams per kilogram (mg/kg).

All non-detects are presented as one-half the detection limits.

PRG – Preliminary Remediation Goal

nc – PRG based on noncarcinogenic (systemic) effects
ca – PRG based on carcinogenic effects
sat – PRG based on the soil saturation concentration
max – PRG based on a ceiling limit
SVOC – Semi-volatile organic compound
VOC – Volatile organic compound
surr – No toxicity information is available for this chemical. The value presented is a surrogate value selected based on structural similarities. The surrogates used are defined below.
a – Naphthalene used as a surrogate for 1-methylnaphthalene and 2-methylnaphthalene.
b – Acenaphthene used as a surrogate for acenaphthylene.
c – Pyrene used as a surrogate for benzo(g,h,i)perylene.
d – No risk-based screening values are available for Hopane (T19) and Retene.
e – m-Cresol used as a surrogate for m & p-cresol.
f – Anthracene used as a surrogate for phenanthrene.
g – 1,2,4-Trimethyl benzene used as a surrogate for 1,2,3-trimethylbenzene.
h – Total xylenes used as a surrogate for m-, o-, &p-xylenes.
i – Isopropylbenzene used as a surrogate for p-isopropyltoluene.

Table 15
Selection of Chemicals of Potential Concern
Recreational Receptors Exposed to Chequamegon Bay Sediment

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Residential Soil PRG (mg/kg)	Basis	Exceeds?	Notes
Inorganics							
Aluminum	980 – 1800	–	2 / 2	7.61E+03	nc	No	
Ammonia (as N)	97 – 97	–	1 / 1	No Value			
Antimony	2.3 – 2.3	2 – 2	1 / 2	3.13E+00	nc	No	
Arsenic	3.1 – 10	–	2 / 2	1.59E+00			
Barium	65 – 110	–	2 / 2	5.37E+02	nc	No	
Beryllium	0.15 – 0.37	–	2 / 2	1.54E+01	nc	No	
Cadmium	0.48 – 0.61	–	2 / 2	3.70E+00	nc	No	
Calcium	4400 – 14000	–	2 / 2	Essential Nutrient			
Chromium	5.4 – 5.9	–	2 / 2	2.11E+02	ca	No	
Chromium (III)	5.4 – 5.9	–	2 / 2	2.11E+02	ca	No	
Cobalt	1.9 – 2.5	–	2 / 2	9.03E+02	ca	No	
Copper	33 – 44	–	2 / 2	3.13E+02	nc	No	
Cyanide	0.61 – 0.61	0.65 – 0.65	1 / 2	1.22E+02	nc	No	
Iron	9000 – 27000	–	2 / 2	2.35E+03	nc	**Yes**	
Lead	57 – 200	–	2 / 2	4.00E+02			
Magnesium	960 – 1300	–	2 / 2	Essential Nutrient			
Manganese	110 – 300	–	2 / 2	1.76E+02	nc	**Yes**	
Mercury	0.087 – 0.088	–	2 / 2	2.35E+00	nc	No	
Nickel	5.7 – 6.4	–	2 / 2	1.56E+02	nc	No	
Potassium	200 – 210	–	2 / 2	Essential Nutrient			
Selenium	1.3 – 2	–	2 / 2	3.91E+01	nc	No	
Sodium	210 – 580	–	2 / 2	Essential Nutrient			
Vanadium	9 – 9.7	–	2 / 2	7.82E+00	nc	**Yes**	
Zinc	110 – 140	–	2 / 2	2.35E+03	nc	No	
SVOCs							
1-Methylnaphthalene	0.084 – 19		3 / 3	5.59E+00	surr	**Yes**	a
2-Methylnaphthalene	0.059 – 2380	0.55 – 10	7 / 13	5.59E+00	surr	**Yes**	a
Acenaphthene	0.12 – 833	0.55 – 10	8 / 14	3.68E+02	nc	**Yes**	
Acenaphthylene	0.076 – 75	0.55 – 15.5	4 / 13	3.68E+02	surr	No	b
Anthracene	0.13 – 360	0.55 – 10.5	7 / 14	2.19E+03	nc	No	
Benzo(a)anthracene	0.86 – 150	0.55 – 10.5	8 / 14	6.21E-01	ca	**Yes**	
Benzo(a)pyrene	0.88 – 100	0.55 – 15.5	7 / 14	6.21E-02	ca	**Yes**	
Benzo(b)fluoranthene	0.99 – 50	0.55 – 15.5	5 / 14	6.21E-01	ca	**Yes**	
Benzo(e)pyrene	0.68 – 10	–	3 / 3	No Value	-		
Benzo(g,h,i)perylene	0.79 – 6.2	0.55 – 21	4 / 14	2.32E+02	surr	No	c
Benzo(k)fluoranthene	0.8 – 71	0.55 – 15.5	5 / 14	6.21E+00	ca	**Yes**	
Chrysene	0.96 – 130	0.55 – 10.5	8 / 14	6.21E+01	ca	**Yes**	
Dibenzo(a,h)anthracene	0.27 – 1.9	0.55 – 21	3 / 13	6.21E-02	ca	**Yes**	
Dibenzofuran	0.016 – 1.8	–	3 / 3	1.45E+01	nc	No	
Fluoranthene	1.6 – 330	0.55 – 3.15	4 / 14	2.29E+02	nc	**Yes**	
Fluorene	0.047 – 500	0.55 – 10.5	6 / 13	2.75E+02	nc	**Yes**	
Indeno(1,2,3-cd)pyrene	0.6 – 5.3	0.55 – 21	4 / 13	6.21E-01	ca	**Yes**	
Naphthalene	0.094 – 2710	0.0295 – 0.0295	13 / 14	5.59E+00	nc	**Yes**	
p-Cresol	0.15 – 0.15	0.0165 – 0.0175	1 / 3	3.06E+01	nc	No	
Phenanthrene	0.44 – 917	0.01 – 3.15	9 / 14	2.19E+03	surr	No	d
Pyrene	1.6 – 410	0.55 – 3.15	9 / 14	2.32E+02	nc	**Yes**	

Table 15
Selection of Chemicals of Potential Concern
Recreational Receptors Exposed to Chequamegon Bay Sediment

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	Region 9 Residential Soil PRG (mg/kg)	Basis	Exceeds?	Notes
VOCs							
1,2,4-Trimethylbenzene	0.11 – 1.43	0.005 – 25	8 / 13	5.16E+00	nc	No	
1,3,5-Trimethylbenzene	0.055 – 0.27	0.005 – 25	4 / 13	2.13E+00	nc	No	
Benzene	0.098 – 0.54	0.005 – 25	3 / 13	6.43E-01	ca	No	
Ethylbenzene	0.018 – 31.1	0.0025 – 25	3 / 13	3.95E+02	sat	No	
Isopropylbenzene	0.07 – 0.07	0.0295 – 25	1 / 10	5.72E+01	nc	No	
Methylene chloride	0.15 – 36.8	0.0295 – 25	5 / 10	9.11E+00	ca	**Yes**	
p-Isopropyltoluene	0.11 – 13.9	0.0295 – 25	7 / 10	5.72E+01	surr	No	e
Toluene	0.016 – 2.2	0.005 – 25	8 / 14	5.20E+02	sat	No	
Xylenes (total)	0.069 – 31.1	0.0025 – 37.5	5 / 14	2.71E+01	nc	**Yes**	

Notes:
All units are milligrams per kilogram (mg/kg).
All non-detects are presented as one-half the detection limits.

PRG – Preliminary Remediation Goal

nc – PRG based on noncarcinogenic (systemic) effects
ca – PRG based on carcinogenic effects
sat – PRG based on the soil saturation concentration
max – PRG based on a ceiling limit
SVOC – Semi-volatile organic compound
VOC – Volatile organic compound
surr – No toxicity information is available for this chemical. The value presented is a surrogate value selected based on structural similarities. The surrogates used are defined below.
a – Naphthalene used as a surrogate for 1-methylnaphthalene and 2-methylnaphthalene.
b – Acenaphthene used as a surrogate for acenaphthylene.
c – Pyrene used as a surrogate for benzo(g,h,i)perylene.
d – Anthracene used as a surrogate for phenanthrene.
e – Isopropylbenzene used as a surrogate for p-isopropyltoluene.

Table 16
Selection of Chemicals of Potential Concern
Recreational Receptors Exposed to Chequamegon Bay Surface Water

Analyte	Detection Range (mg/kg)	Nondetect Range (mg/kg)	Detection Frequency	AWQC[a] Human Health (µg/L)	Basis	Exceeds AWQC?	Notes
High Energy Event							
SVOCs							
1-Methylnaphthalene	1.1 – 1.1	0.55 – 0.55	2 / 10	**6.2**	surr	No	a, b
2-Methylnaphthalene	1.1 – 1.2	0.55 – 0.55	2 / 10	**6.2**	surr	No	a, b
Acenaphthene	1.1 – 1.1	0.55 – 0.55	1 / 10	990	nc	No	
Naphthalene	1.1 – 1.8	0.55 – 0.55	5 / 19	**6.2**	nc	No	a
VOCs							
1,2,4-Trimethylbenzene	0.17 – 0.17	0.08 – 0.08	1 / 8	**12**	nc	No	a
1,3,5-Trimethylbenzene	0.23 – 0.23	0.075 – 0.075	1 / 8	**12**	nc	No	a
Benzene	0.15 – 0.74	0.07 – 0.07	5 / 8	51	ca	No	
Ethylbenzene	0.19 – 0.48	0.085 – 0.085	6 / 8	2,100	nc	No	
m & p-Xylenes	0.37 – 0.44	0.175 – 0.175	2 / 8	206	nc	No	
Toluene	0.14 – 0.31	0.125 – 0.125	2 / 8	15000	nc	No	
Low Energy Event							
SVOCs							
Anthracene	0.1 – 0.1	0.49 – 0.49	1 / 13	40000	nc	No	
Benzo(a)anthracene	0.29 – 0.29	0.46 – 0.46	1 / 13	0.018	ca	Yes	
Benzo(a)pyrene	0.33 – 0.33	0.5 – 0.5	1 / 13	0.018	ca	Yes	
Benzo(b)fluoranthene	0.17 – 0.17	0.46 – 0.46	1 / 13	0.018	ca	Yes	
Benzo(g,h,i)perylene	0.22 – 0.22	0.5 – 0.5	1 / 13	4000	surr	No	b
Benzo(k)fluoranthene	0.095 – 0.095	0.6 – 0.6	1 / 13	0.018	ca	Yes	
Chrysene	0.27 – 0.27	0.5 – 0.5	1 / 13	0.018	ca	Yes	
Dibenzo(a,h)anthracene	0.17 – 0.17	0.495 – 0.495	1 / 13	0.018	ca	Yes	
Fluoranthene	0.46 – 0.46	0.485 – 0.485	1 / 13	140	nc	No	
Indeno(1,2,3-cd)pyrene	0.42 – 0.42	0.47 – 0.47	1 / 13	0.018	ca	Yes	
Phenanthrene	0.66 – 0.66	0.49 – 0.49	1 / 13	40000	surr	No	b
Pyrene	0.7 – 0.7	0.47 – 0.47	1 / 13	4000	nc	No	
VOCs							
Benzene	0.26 – 0.47	0.07 – 0.07	4 / 13	51	ca	No	
Ethylbenzene	0.32 – 0.32	0.085 – 0.085	1 / 13	2,100	nc	No	
Toluene	0.25– 0.355	0.125 – 0.125	6 / 13	15,000	nc	No	
Xylenes (total)	1.54 – 1.54	No data	1 / 5	**210**	nc	No	a

Notes:
All units are micrograms per liter (µg/L).
All non-detects are presented as one-half the detection limits.

nc – AWQC based on noncarcinogenic (systemic) effects
ca – AWQC based on carcinogenic effects
SVOC – Semi-volatile organic compound
VOC – Volatile organic compound

a – For those chemicals lacking an AWQC, the Region 9 tap water PRG was used as the screening value. PRG values are presented in bold.
b – Naphthalene used as the surrogate for 1-methylnaphthalene and 2-methylnaphthalene.
Anthracene used as a surrogate for phenanthrene.
Pyrene used as a surrogate for benzo(g,h,i)perylene.

Table 17
Selection of Chemicals of Potential Concern
Residential Receptors Exposed to Chemicals in Soil Gas

Analyte	Detection Range (ug/m³)	Maximum	Detection Frequency	Target Shallow Gas[a] Concentration (ug/m³)	Basis	Exceeds Target Concentration?	Notes
1,2,4-Trimethylbenzene	2.01 - 2.01	2.01	1 / 7	6.00E+01	nc	No	
Benzene	1.69 - 1.69	1.69	1 / 7	3.10E+01	ca	No	
Chloromethane	1.3 - 1.3	1.3	1 / 7	2.40E+02	ca	No	
Dichlorodifluoromethane	2.57 - 16.82	16.82	6 / 7	2.00E+03	nc	No	
Ethylbenzene	2.17 - 2.17	2.17	1 / 7	2.20E+02	ca	No	
m & p-Xylenes	1.65 - 5.2	5.2	2 / 7	7.00E+04	nc	No	b
o-Xylene	1.73 - 1.73	1.73	1 / 7	7.00E+04	nc	No	
Toluene	1.85 - 7.15	7.15	3 / 7	4.00E+03	nc	No	
Trichlorofluoromethane	1.4 - 9.52	9.52	5 / 7	7.00E+03	nc	No	

Notes:

a – Target Shallow Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor Equals 0.1.

b – The concentration for m-xylene was used for the comparison.

nc – noncarcinogenic

ca – carcinogenic

Table 18
Selection of Chemicals of Potential Concern
Subsistence Fisher Exposed to Chemical in Finfish Tissue

Chemical	Frequency of Detection	Range of Detected Concentrations (mg/kg)	Range of Detected Limits (ug/kg)	Region 3 Fish Ingestion RBC (mg/kg)	Basis	Exceeds RBC?
Shorthead Redhorse & Walleye						
Naphthalene	16 / 16	0.0029 – 0.33	2 – 2	2.70	nc	No
2-Methylnaphthalene	16 / 16	0 – 0.23	2 – 2	0.54	nc	No
1-Methylnaphthalene	16 / 16	0.0 – 0.62	2 – 2	0.54	surr	***Yes***
Biphenyl	13 / 16	0.0 – 0.049	2 – 2	6.76	nc	No
2,6 Dimethylnaphthalene	15 / 16	0.0 – 0.23	2 – 2	0.54	surr	No
Acenaphthylene	7 / 16	0.0 – 0.019	2 – 2	8.11	surr	No
Acenaphthene	15 / 16	0.0 – 0.58	2 – 2	8.11	nc	No
2,3,5 Trimethylnaphthalene	14 / 16	0.0 – 0.051	2 – 2	0.54	surr	No
Fluorene	14 / 16	0.0 – 0.17	2 – 2	5.41	nc	No
Phenanthrene	15 / 16	0.0 – 0.24	2 – 2	40.56	nc	No
Anthracene	14 / 16	0 – 0.043	2 – 2	40.56	nc	No
1-Methylphenanthrene	4 / 16	0.0 – 0.0043	2 – 2	NV	–	–
Fluoranthene	14 / 16	0.0 – 0.017	2 – 2	5.41	nc	No
Pyrene	14 / 16	0.0 – 0.0097	2 – 2	4.06	nc	No
Smelt						
Naphthalene	9 / 9	0.014 – 0.026	2 – 2	2.70	nc	No
2-Methylnaphthalene	9 / 9	0.012 – 0.024	2 – 2	0.54	nc	No
1-Methylnaphthalene	9 / 9	0.012 – 0.032	2 – 2	0.54	surr	No
Biphenyl	5 / 9	0.0021 – 0.0032	2 – 2	6.76	nc	No
2,6 Dimethylnaphthalene	9 / 9	0.004 – 0.011	2 – 2	0.54	surr	No
Acenaphthylene	0 / 9	0 – 0	2 – 2	8.11	surr	No
Acenaphthene	9 / 9	0.0097 – 0.028	2 – 2	8.11	nc	No
2,3,5 Trimethylnaphthalene	3 / 9	0.002 – 0.003	2 – 2	0.54	surr	No
Fluorene	9 / 9	0.004 – 0.01	2 – 2	5.41	nc	No
Phenanthrene	8 / 9	0.0079 – 0.018	2 – 2	40.56	nc	No
Anthracene	8 / 9	0.0021 – 0.0051	2 – 2	40.56	nc	No
1-Methylphenanthrene	2 / 9	0.002 – 0.003	2 – 2	NV	–	–
Fluoranthene	8 / 9	0.0028 – 0.03	2 – 2	5.41	nc	No
Pyrene	8 / 9	0.0032 – 0.027	2 – 2	4.06	nc	No
Benzo(a)anthracene	3 / 9	0.0021 – 0.017	2 – 2	0.0043	ca	***Yes***
Chrysene	2 / 9	0.0026 – 0.017	2 – 2	0.43	ca	No
Benzo(b)fluoranthene	2 / 9	0.0034 – 0.019	2 – 2	0.0043	ca	***Yes***
Benzo(k)fluoranthene	2 / 9	0.0027 – 0.017	2 – 2	0.04	ca	No
Benzo(e)pyrene	1 / 9	0.0098 – 0.0098	2 – 2	0.00043	ca	***Yes***
Benzo(a)pyrene	2 / 9	0.0024 – 0.015	2 – 2	0.00043	ca	***Yes***
Perylene	1 / 9	0.0042 – 0.0042	2 – 2	NV	–	No
Indeno(1,2,3-cd)pyrene	1 / 9	0.0076 – 0.0076	2 – 2	0.0043	ca	***Yes***
Dibenzo(a,h)anthracene	1 / 9	0.0026 – 0.0026	2 – 2	0.00043	ca	***Yes***
Benzo(g,h,i)perylene	1 / 9	0.0075 – 0.0075	2 – 2	4.06	nc	No

Notes:

All units are milligrams per kilogram (mg/kg).

RBC – Region 3 Risk-based Concentration (USEPA, October 2005).
nc – Region 3 RBC based on noncarcinogenic effects.
surr – An RBC is not available for this chemical. A surrogate chemical was selected for this chemical based on structural similarities.
ca – Region 3 RBC is based on carcinogenic effects.

Table 19
Selection of Chemicals of Potential Concern
Industrial Worker Receptors Exposed to Volatile Organic Chemicals in Indoor Air

Analyte	Detection Range (µg/m3)	Detection Frequency	Max	Region 9 Ambient Air PRG (µg/m3)	Basis	Notes	Exceeds?
Indoor Air							
1,1,1-Trichloroethane	12.51 - 12.51	1 / 2	12.51	2.30E+03	nc		No
1,2,4-Trimethylbenzene	3.97 - 38.76	2 / 2	38.76	6.21E+00	nc		***Yes***
1,3,5-Trimethylbenzene	9.32 - 9.32	1 / 2	9.32	6.21E+00	nc		***Yes***
1,4-Dichlorobenzene	41.47 - 961.57	2 / 2	961.57	3.06E-01	ca		***Yes***
Benzene	7.98 - 38.32	2 / 2	38.32	2.49E-01	ca		***Yes***
Carbon tetrachloride	10.7 - 10.7	1 / 2	10.70	1.28E-01	ca		***Yes***
Chloromethane	2.68 - 4.13	2 / 2	4.13	9.49E+01	nc		No
Dichlorodifluoromethane	5.44 - 20.28	2 / 2	20.28	2.09E+02	nc		No
Ethylbenzene	11.27 - 26.87	2 / 2	26.87	1.06E+03	nc		No
m & p-Xylenes	39 - 73.67	2 / 2	73.67	1.06E+02	nc	a	No
Methylene chloride	4.86 - 4.86	1 / 2	4.86	4.09E+00	ca		***Yes***
o-Xylene	7.8 - 18.63	2 / 2	18.63	1.06E+02	nc	a	No
Styrene	5.53 - 5.53	1 / 2	5.53	1.06E+03	nc		No
Toluene	101.66 - 109.19	2 / 2	109.19	4.02E+02	nc		No
Trichloroethylene	3.16 - 3.16	1 / 2	3.16	1.68E-02	ca		***Yes***
Trichlorofluoromethane	2.63 - 8.4	2 / 2	8.40	7.30E+02	nc		No
Ambient Air							
Chloromethane	1.78 - 8.05	2 / 3	8.05	9.49E+01	ca		No
Dichlorodifluoromethane	3.26 - 14.84	3 / 3	14.84	2.09E+02	ca		No
Toluene	1.43 - 1.43	1 / 3	1.43	4.02E+02	nc		No
Trichlorofluoromethane	1.57 - 1.9	2 / 3	1.90	7.30E+02	nc		No

Notes:
All units are microgram per cubic meter (µg/m^{3}).

PRG – Preliminary Remediation Goal
nc – PRG based on noncarcinogenic (systemic) effects
ca – PRG based on carcinogenic effects

a – Total xylenes used as a surrogate for m-, o-, & p-xylenes.

Table 20
Residential Risk Summary (0-10 feet)
Reasonable Maximum Exposure

	Total Carcinogenic Risk									Total Noncarcinogenic Risk						
Equation unitless	CR unitless	=	Ingestion unitless	+	Dermal Contact unitless	+	Inhalation unitless		Target Organs	HQ unitless	=	Ingestion unitless	+	Dermal Contact unitless	+	Inhalation unitless
Inorganics																
Arsenic	1.31E-05	=	1.19E-05	+	1.18E-06	+	1.72E-09		*Skin, Circulatory*	2.35E-01	=	2.16E-01	+	1.91E-02	+	NA
Lead	NA	=	NA	+	NA	+	NA			NA	=	NA	+	NA	+	NA
Thallium	NA	=	NA	+	NA	+	NA		*Systemic*	1.31E-02	=	1.31E-02	+	NA	+	NA
SVOCs																
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA		*Respiratory*	3.74E-02	=	2.74E-02	+	9.98E-03	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA	+	NA		*Respiratory*	5.89E-01	=	4.60E-01	+	1.29E-01	+	NA
Acenaphthene	NA	=	NA	+	NA	+	NA		*Systemic*	1.06E-03	=	7.76E-04	+	2.82E-04	+	NA
Benzo(a)anthracene	3.96E-05	=	2.81E-05	+	1.15E-05	+	NA			NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	3.14E-04	=	2.23E-04	+	9.14E-05	+	1.36E-09			NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	3.43E-05	=	2.43E-05	+	9.97E-06	+	NA			NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	1.63E-06	=	1.16E-06	+	4.74E-07	+	NA			NA	=	NA	+	NA	+	NA
Chrysene	3.77E-07	=	2.67E-07	+	1.10E-07	+	NA			NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	5.02E-05	=	3.56E-05	+	1.46E-05	+	NA			NA	=	NA	+	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA	+	NA		*Systemic*	8.66E-02	=	6.35E-02	+	2.31E-02	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA		*Systemic, Circulatory*	2.77E-03	=	2.03E-03	+	7.40E-04	+	NA
Fluorene	NA	=	NA	+	NA	+	NA		*Circulatory*	2.00E-03	=	1.47E-03	+	5.34E-04	+	NA
Indeno(1,2,3-cd)pyrene	8.61E-06	=	6.11E-06	+	2.50E-06	+	NA			NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA		*Respiratory, Systemic*	1.10E+01	=	1.19E-01	+	4.33E-02	+	1.08E+01
Phenanthrene	NA	=	NA	+	NA	+	NA			NA	=	NA	+	NA	+	NA
Pyrene	NA	=	NA	+	NA	+	NA		*Systemic*	4.98E-03	=	3.65E-03	+	1.33E-03	+	NA
VOCs																
1,2,4-Trichlorobenzene	NA	=	NA	+	NA	+	NA		*Systemic, Adrenal*	2.96E-01	=	3.79E-02	+	NA	+	2.58E-01
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA		*Systemic, CNS*	9.29E-01	=	1.55E-03	+	NA	+	9.27E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA		*Systemic, CNS*	2.93E-01	=	4.02E-04	+	NA	+	2.92E-01
Benzene	1.94E-05	=	1.23E-06	+	NA	+	1.82E-05		*Circulatory*	7.92E-01	=	4.57E-02	+	NA	+	7.46E-01
Xylenes (total)	NA	=	NA	+	NA	+	NA		*Systemic, CNS*	5.90E-01	=	1.87E-03	+	NA	+	5.88E-01
Soil CR	***5E-04***	=	3E-04	+	1E-04	+	2E-05		**Soil HI**	***15***	=	1.0	+	0.2	+	14

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index
CNS – Central Nervous System

Target Organ HI	
Respiratory	1E+01
Systemic	1E+01
Circulatory	1E+00
Adrenal	3E-01
CNS	2E+00
Skin	2E-01

Table 21
Risk Summary - Recreational Adult Exposed to Surface Soil
Reasonable Maximum Exposure

	Total Carcinogenic Risk							Total Noncarcinogenic Hazard						
Equation	**CR**	**=**	**Ingestion**	**+**	**Dermal**	**+**	**Inhalation**	**HQ**	**=**	**Ingestion**	**+**	**Dermal**	**+**	**Inhalation**
unitless	**unitless**		**unitless**		**unitless**		**unitless**	**unitless**		**unitless**		**unitless**		**unitless**
Aluminum	NA	=	NA	+	NA	+	NA	5.06E-04	=	4.85E-04	+	NA	+	2.06E-05
Arsenic	2.49E-07	=	1.79E-07	+	6.94E-08	+	1.09E-10	1.29E-03	=	9.30E-04	+	3.60E-04	+	NA
Cadmium	1.13E-11	=	NA	+	NA	+	1.13E-11	1.03E-04	=	6.89E-05	+	3.37E-05	+	1.61E-08
Iron	NA	=	NA	+	NA	+	NA	4.32E-03	=	4.32E-03	+	NA	+	NA
Lead	NA	=	NA	+	NA	+	NA	NA	=	NA	+	NA	+	NA
Manganese	NA	=	NA	+	NA	+	NA	2.01E-04	=	1.26E-04	+	NA	+	7.52E-05
Thallium	NA	=	NA	+	NA	+	NA	6.60E-05	=	6.60E-05	+	NA	+	NA
Vanadium	NA	=	NA	+	NA	+	NA	2.66E-04	=	2.66E-04	+	NA	+	NA
Zinc	NA	=	NA	+	NA	+	NA	7.82E-05	=	7.82E-05	+	NA	+	NA
Benzo(a)anthracene	1.49E-07	=	5.74E-08	+	9.13E-08	+	NA	NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	2.93E-06	=	1.13E-06	+	1.80E-06	+	2.90E-11	NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	2.83E-07	=	1.09E-07	+	1.74E-07	+	NA	NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	7.95E-09	=	3.07E-09	+	4.88E-09	+	NA	NA	=	NA	+	NA	+	NA
Indeno(1,2,3-cd)pyrene	1.95E-07	=	7.52E-08	+	1.20E-07	+	NA	NA	=	NA	+	NA	+	NA
Soil CR	**4E-06**	=	2E-06	+	2E-06	+	1E-10	**Soil HI** **0.006**	=	0.01	+	0.0004	+	8E-05

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

Table 22
Risk Summary - Recreational Adolescent Exposed to Surface Soil
Reasonable Maximum Exposure

	Total Carcinogenic Risk							Total Noncarcinogenic Hazard						
Equation	**CR**	**=**	**Ingestion**	**+**	**Dermal**	**+**	**Inhalation**	**HQ**	**=**	**Ingestion**	**+**	**Dermal**	**+**	**Inhalation**
unitless	**unitless**		**unitless**		**unitless**		**unitless**	**unitless**		**unitless**		**unitless**		**unitless**
Aluminum	NA	=	NA	+	NA	+	NA	7.53E-04	=	7.23E-04	+	NA	+	3.07E-05
Arsenic	1.16E-07	=	1.07E-07	+	9.54E-09	+	6.52E-11	1.92E-03	=	1.39E-03	+	5.36E-04	+	NA
Cadmium	6.74E-12	=	NA	+	NA	+	6.74E-12	1.53E-04	=	1.03E-04	+	5.03E-05	+	2.40E-08
Iron	NA	=	NA	+	NA	+	NA	6.43E-03	=	6.43E-03	+	NA	+	NA
Lead	NA	=	NA	+	NA	+	NA	NA	=	NA	+	NA	+	NA
Manganese	NA	=	NA	+	NA	+	NA	3.00E-04	=	1.88E-04	+	NA	+	1.12E-04
Thallium	NA	=	NA	+	NA	+	NA	9.83E-05	=	9.83E-05	+	NA	+	NA
Vanadium	NA	=	NA	+	NA	+	NA	3.96E-04	=	3.96E-04	+	NA	+	NA
Zinc	NA	=	NA	+	NA	+	NA	1.17E-04	=	1.17E-04	+	NA	+	NA
Benzo(a)anthracene	4.67E-08	=	3.42E-08	+	1.26E-08	+	NA	NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	9.20E-07	=	6.73E-07	+	2.47E-07	+	1.73E-11	NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	8.89E-08	=	6.50E-08	+	2.39E-08	+	NA	NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	2.50E-09	=	1.83E-09	+	6.71E-10	+	NA	NA	=	NA	+	NA	+	NA
Indeno(1,2,3-cd)pyrene	6.12E-08	=	4.48E-08	+	1.65E-08	+	NA	NA	=	NA	+	NA	+	NA
Soil CR	**1E-06**	=	9E-07	+	3E-07	+	9E-11	**Soil HI** **0.009**	=	0.009	+	0.001	+	1E-04

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

Table 23
Risk Summary - Recreational Child Exposed to Surface Soil
Reasonable Maximum Exposure

	Total Carcinogenic Risk							Total Noncarcinogenic Hazard						
Equation	**CR**	**=**	**Ingestion**	**+**	**Dermal**	**+**	**Inhalation**	**HQ**	**=**	**Ingestion**	**+**	**Dermal**	**+**	**Inhalation**
unitless	**unitless**		**unitless**		**unitless**		**unitless**	**unitless**		**unitless**		**unitless**		**unitless**
Aluminum	NA	=	NA	+	NA	+	NA	1.82E-02	=	1.81E-02	+	NA	+	1.16E-04
Arsenic	1.46E-06	=	1.34E-06	+	1.18E-07	+	1.23E-10	3.78E-02	=	3.47E-02	+	3.07E-03	+	NA
Cadmium	1.27E-11	=	NA	+	NA	+	1.27E-11	2.86E-03	=	2.57E-03	+	2.88E-04	+	9.03E-08
Iron	NA	=	NA	+	NA	+	NA	1.61E-01	=	1.61E-01	+	NA	+	NA
Lead	NA	=	NA	+	NA	+	NA	NA	=	NA	+	NA	+	NA
Manganese	NA	=	NA	+	NA	+	NA	5.14E-03	=	4.71E-03	+	NA	+	4.21E-04
Thallium	NA	=	NA	+	NA	+	NA	2.46E-03	=	2.46E-03	+	NA	+	NA
Vanadium	NA	=	NA	+	NA	+	NA	9.92E-03	=	9.92E-03	+	NA	+	NA
Zinc	NA	=	NA	+	NA	+	NA	2.92E-03	=	2.92E-03	+	NA	+	NA
Benzo(a)anthracene	5.84E-07	=	4.28E-07	+	1.56E-07	+	NA	NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	1.15E-05	=	8.44E-06	+	3.07E-06	+	3.25E-11	NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	1.11E-06	=	8.15E-07	+	2.96E-07	+	NA	NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	3.12E-08	=	2.29E-08	+	8.34E-09	+	NA	NA	=	NA	+	NA	+	NA
Indeno(1,2,3-cd)pyrene	7.66E-07	=	5.61E-07	+	2.04E-07	+	NA	NA	=	NA	+	NA	+	NA
Soil CR	**2E-05**	=	1E-05	+	4E-06	+	2E-10	**Soil HI** **0.22**	=	0.2	+	0.003	+	4E-04

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

Table 24
Adult Swimmer Risk Summary
Reasonable Maximum Exposure

	Total Carcinogenic Risk						Total Noncarcinogenic Risk				
Equation unitless	CR unitless	=	Ingestion unitless	+	Dermal Contact unitless		HQ unitless	=	Ingestion unitless	+	Dermal Contact unitless
Iron	NA	=	NA	+	NA		1.18E-05	=	1.18E-05	+	NA
Manganese	NA	=	NA	+	NA		8.45E-07	=	8.45E-07	+	NA
Vanadium	NA	=	NA	+	NA		1.28E-06	=	1.28E-06	+	NA
1-Methylnaphthalene	NA	=	NA	+	NA		NA	=	NA	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA		3.64E-02	=	1.80E-05	+	3.64E-02
Acenaphthene	NA	=	NA	+	NA		1.07E-03	=	4.05E-07	+	1.07E-03
Benzo(a)anthracene	4.29E-06	=	2E-09	+	4.29E-06		NA	=	NA	+	NA
Benzo(a)pyrene	3.10E-05	=	1E-08	+	3.10E-05		NA	=	NA	+	NA
Benzo(b)fluoranthene	1.63E-06	=	6E-10	+	1.63E-06		NA	=	NA	+	NA
Benzo(k)fluoranthene	2.07E-07	=	8E-11	+	2.07E-07		NA	=	NA	+	NA
Chrysene	3.83E-08	=	1E-11	+	3.83E-08		NA	=	NA	+	NA
Dibenzo(a,h)anthracene	2.06E-06	=	8E-10	+	2.06E-06		NA	=	NA	+	NA
Fluoranthene	NA	=	NA	+	NA		7.49E-04	=	2.84E-07	+	7.49E-04
Fluorene	NA	=	NA	+	NA		9.75E-04	=	3.70E-07	+	9.75E-04
Indeno(1,2,3-cd)pyrene	5.74E-07	=	2E-10	+	5.74E-07		NA	=	NA	+	NA
Naphthalene	NA	=	NA	+	NA		9.92E-03	=	3.77E-06	+	9.92E-03
Pyrene	NA	=	NA	+	NA		3.86E-05	=	4.83E-07	+	3.81E-05
Methylene chloride	5.49E-12	=	5E-12	+	NA		2.85E-08	=	2.85E-08	+	NA
Xylenes (total)	NA	=	NA	+	NA		6.77E-09	=	6.77E-09	+	NA
Sediment CR	**4E-05**	=	2E-08	+	4E-05	**Sediment HI**	**0.05**	=	4E-05	+	0.05

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

Table 25
Adolescent Swimmer Risk Summary
Reasonable Maximum Exposure

	Total Carcinogenic Risk						Total Noncarcinogenic Risk				
Equation unitless	CR unitless	=	Ingestion unitless	+	Dermal Contact unitless		HQ unitless	=	Ingestion unitless	+	Dermal Contact unitless
Iron	NA	=	NA	+	NA		1.76E-05	=	1.76E-05	+	NA
Manganese	NA	=	NA	+	NA		1.26E-06	=	1.26E-06	+	NA
Vanadium	NA	=	NA	+	NA		1.90E-06	=	1.90E-06	+	NA
1-Methylnaphthalene	NA	=	NA	+	NA		NA	=	NA	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA		3.87E-02	=	2.67E-05	+	4E-02
Acenaphthene	NA	=	NA	+	NA		1.13E-03	=	0.00E+00	+	1E-03
Benzo(a)anthracene	1.82E-06	=	1E-09	+	2E-06		NA	=	NA	+	NA
Benzo(a)pyrene	1.32E-05	=	7E-09	+	1E-05		NA	=	NA	+	NA
Benzo(b)fluoranthene	6.93E-07	=	4E-10	+	7E-07		NA	=	NA	+	NA
Benzo(k)fluoranthene	8.81E-08	=	5E-11	+	9E-08		NA	=	NA	+	NA
Chrysene	1.63E-08	=	9E-12	+	2E-08		NA	=	NA	+	NA
Dibenzo(a,h)anthracene	8.75E-07	=	5E-10	+	9E-07		NA	=	NA	+	NA
Fluoranthene	NA	=	NA	+	NA		7.96E-04	=	4.24E-07	+	8E-04
Fluorene	NA	=	NA	+	NA		1.04E-03	=	5.51E-07	+	1E-03
Indeno(1,2,3-cd)pyrene	2.44E-07	=	1E-10	+	2E-07		NA	=	NA	+	NA
Naphthalene	NA	=	NA	+	NA		1.05E-02	=	5.61E-06	+	1E-02
Pyrene	NA	=	NA	+	NA		4.12E-05	=	7.19E-07	+	4E-05
Methylene chloride	3.27E-12	=	3E-12	+	NA		4.24E-08	=	4.24E-08	+	NA
Xylenes (total)	NA	=	NA	+	NA		1.01E-08	=	1.01E-08	+	NA
Sediment CR	**2E-05**	=	9E-09	+	2E-05	**Sediment HI**	**0.05**	=	6E-05	+	0.05

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

Table 26
Adult Wader Risk Summary
Reasonable Maximum Exposure

Equation unitless	Total Carcinogenic Risk: Total Risk unitless	=	Ingestion unitless	+	Dermal Contact unitless		Total Noncarcinogenic Risk: Total Hazard unitless	=	Ingestion unitless	+	Dermal Contact unitless
Iron	NA	=	NA	+	NA		2.37E-05	=	2.37E-05	+	NA
Manganese	NA	=	NA	+	NA		8.45E-07	=	8.45E-07	+	NA
Vanadium	NA	=	NA	+	NA		1.28E-06	=	1.28E-06	+	NA
1-Methylnaphthalene	NA	=	NA	+	NA		NA	=	NA	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA		3.64E-02	=	1.80E-05	+	3.64E-02
Acenaphthene	NA	=	NA	+	NA		1.07E-03	=	2.19E-09	+	1.07E-03
Benzo(a)anthracene	4.29E-06	=	3.26E-09	+	4.29E-06		NA	=	NA	+	NA
Benzo(a)pyrene	3.10E-05	=	2.35E-08	+	3.10E-05		NA	=	NA	+	NA
Benzo(b)fluoranthene	1.63E-06	=	1.24E-09	+	1.63E-06		NA	=	NA	+	NA
Benzo(k)fluoranthene	2.07E-07	=	1.57E-10	+	2.07E-07		NA	=	NA	+	NA
Chrysene	3.83E-08	=	2.91E-11	+	3.83E-08		NA	=	NA	+	NA
Dibenzo(a,h)anthracene	2.06E-06	=	1.56E-09	+	2.06E-06		NA	=	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA		1.73E-04	=	6.58E-08	+	1.73E-04
Fluoranthene	NA	=	NA	+	NA		7.49E-04	=	3.29E-09	+	7.49E-04
Fluorene	NA	=	NA	+	NA		9.75E-04	=	3.29E-09	+	9.75E-04
Indeno(1,2,3-cd)pyrene	5.75E-07	=	4.36E-10	+	5.74E-07		NA	=	NA	+	NA
Naphthalene	NA	=	NA	+	NA		9.92E-03	=	3.77E-06	+	9.92E-03
Pyrene	NA	=	NA	+	NA		8.29E-07	=	4.83E-07	+	3.46E-07
Methylene chloride	5.49E-12	=	5.49E-12	+	NA		2.85E-08	=	2.85E-08	+	NA
Xylenes (total)	NA	=	NA	+	NA		6.77E-09	=	6.77E-09	+	NA
Sediment CR	**4E-05**	=	3E-08	+	4E-05	**Sediment HI**	**0.05**	=	5E-05	+	0.046

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

Table 27
Adolescent Wader Risk Summary
Reasonable Maximum Exposure

	Total Carcinogenic Risk						Total Noncarcinogenic Risk				
Equation unitless	CR unitless	=	Ingestion unitless	+	Dermal Contact unitless		HQ unitless	=	Ingestion unitless	+	Dermal Contact unitless
Iron	NA	=	NA	+	NA		4E-05	=	3.53E-05	+	NA
Manganese	NA	=	NA	+	NA		3E-06	=	2.52E-06	+	NA
Vanadium	NA	=	NA	+	NA		4E-06	=	3.80E-06	+	NA
1-Methylnaphthalene	NA	=	NA	+	NA		NA	=	NA	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA		4E-02	=	5.35E-05	+	4E-02
Acenaphthene	NA	=	NA	+	NA		1E-03	=	0.00E+00	+	1E-03
Benzo(a)anthracene	2E-06	=	2E-09	+	2E-06		NA	=	NA	+	NA
Benzo(a)pyrene	1E-05	=	1E-08	+	1E-05		NA	=	NA	+	NA
Benzo(b)fluoranthene	7E-07	=	7E-10	+	7E-07		NA	=	NA	+	NA
Benzo(k)fluoranthene	9E-08	=	9E-11	+	9E-08		NA	=	NA	+	NA
Chrysene	2E-08	=	2E-11	+	2E-08		NA	=	NA	+	NA
Dibenzo(a,h)anthracene	9E-07	=	9E-10	+	9E-07		NA	=	NA	+	NA
Fluoranthene	NA	=	NA	+	NA		8E-04	=	8.47E-07	+	8E-04
Fluorene	NA	=	NA	+	NA		1E-03	=	1.10E-06	+	1E-03
Indeno(1,2,3-cd)pyrene	2E-07	=	3E-10	+	2E-07		NA	=	NA	+	NA
Naphthalene	NA	=	NA	+	NA		1E-02	=	1.12E-05	+	1E-02
Pyrene	NA	=	NA	+	NA		4E-05	=	7.19E-07	+	4E-05
Methylene chloride	3E-13	=	3E-13	+	NA		3E-09	=	3.26E-09	+	NA
o-Xylene	NA	=	NA	+	NA		1E-09	=	9.79E-10	+	NA
sec-Butyl benzene	NA	=	NA	+	NA		5E-09	=	4.90E-09	+	NA
Styrene	NA	=	NA	+	NA		1E-09	=	9.79E-10	+	NA
Xylenes (total)	NA	=	NA	+	NA		1E-08	=	1.01E-08	+	NA
Sediment CR	**2E-05**	=	2E-08	+	2E-05	**Sediment HI**	**0.05**	=	1E-04	+	0.052

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

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Table 28
Industrial Worker Risk Summary
Reasonable Maximum Exposure

	Carcinogenic Risk							Noncarcinogenic Hazard						
Equation	CR	=	Ingestion	+	Dermal	+	Inhalation	HI	=	Ingestion	+	Dermal	+	Inhalation
Units	unitless		unitless		unitless		unitless	unitless		unitless		unitless		unitless
Inorganics														
Arsenic	1E-06	=	9.58E-07	+	2.00E-07	+	3.03E-10	7.20E-03	=	5.96E-03	+	1.24E-03	+	NA
SVOCs														
Benzo(a)pyrene	2E-07	=	2.31E-07	+	NA	+	3.07E-12	NA	=	NA	+	NA	+	NA
Soil CR	**1E-06**	=	1E-06	+	2E-07	+	3E-10	**Soil HI** **0.007**	=	0.01	+	0.001	+	NA

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index
SVOC – Semivolatile organic compound

Table 29
Industrial Worker Indoor Air Risk Summary
Reasonable Maximum Exposure

	Carcinogenic Risk unitless	Target Organs	Noncarcinogenic Hazard unitless
1,2,4-Trimethylbenzene	NA	*Systemic, CNS*	1.77E+00
1,3,5-Trimethylbenzene	NA	*CNS*	4.27E-01
1,4-Dichlorobenzene	NA	*Systemic*	3.29E-01
Benzene	2.92E-05	*Circulatory*	3.50E-01
Carbon tetrachloride	1.57E-05		NA
Methylene chloride	2.24E-07	*CNS*	4.44E-04
Trichloroethylene	3.53E-05	*Systemic, CNS*	2.17E-02
Air CR	**8E-05**	**Air HI**	**3**

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Target Organ HI	
Circulatory	4E-01
CNS	2E+00
Systemic	3E+00

Table 30
Maintenance Worker Risk Summary
Reasonable Maximum Exposure

	Carcinogenic Risk								Noncarcinogenic Hazard						
Equation	**CR**	**=**	**Ingestion**	**+**	**Dermal**	**+**	**Inhalation**		**HQ**	**=**	**Ingestion**	**+**	**Dermal**	**+**	**Inhalation**
Units	**unitless**		**unitless**		**unitless**		**unitless**		**unitless**		**unitless**		**unitless**		**unitless**
Arsenic	1.39E-07	=	1.15E-07	+	2.40E-08	+	6.98E-11		8.65E-04	=	7.16E-04	+	1.49E-04	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)anthracene	5.9E-08	=	3.17E-08	+	2.72E-08	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	1.2E-06	=	6.37E-07	+	5.47E-07	+	1.63E-11		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	1.1E-07	=	5.89E-08	+	5.05E-08	+	NA		NA	=	NA	+	NA	+	NA
Indeno(1,2,3-cd)pyrene	7.5E-08	=	4.06E-08	+	3.48E-08	+	NA		NA	=	NA	+	NA	+	NA
Soil CR	**2E-06**	=	9E-07	+	7E-07	+	9E-11	**Soil HI**	**0.0009**	=	0.0007	+	0.0001	+	NA

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Table 31
Construction Worker Risk Summary
Reasonable Maximum Exposure

	Carcinogenic Risk							Target Organs	Noncarcinogenic Hazard						
Equation	CR	=	Ingestion	+	Dermal	+	Inhalation		HQ	=	Ingestion	+	Dermal	+	Inhalation
Units	unitless		unitless		unitless		unitless		unitless		unitless		unitless		unitless
Inorganics															
Arsenic	3.38E-07	=	3.12E-07	+	1.73E-08	+	8.32E-09	*Skin, Circulatory*	5.13E-02	=	4.86E-02	+	2.69E-03	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Manganese	NA	=	NA	+	NA	+	NA	*CNS*	1.92E-01	=	7.11E-03	+	NA	+	1.85E-01
Vanadium	NA	=	NA	+	NA	+	NA	*Skin*	1.45E-02	=	1.45E-02	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	8.13E-02	=	6.62E-02	+	1.51E-02	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	1.51E+00	=	1.29E+00	+	2.26E-01	+	NA
Acenaphthene	NA	=	NA	+	NA	+	NA	*Systemic*	2.55E-03	=	2.08E-03	+	4.74E-04	+	NA
Acenaphthylene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)anthracene	7.05E-06	=	5.74E-06	+	1.31E-06	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	5.07E-05	=	4.13E-05	+	9.41E-06	+	4.62E-08		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	3.08E-06	=	2.51E-06	+	5.72E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	3.82E-07	=	3.11E-07	+	7.09E-08	+	NA		NA	=	NA	+	NA	+	NA
Chrysene	6.31E-08	=	5.14E-08	+	1.17E-08	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	7.59E-06	=	6.18E-06	+	1.41E-06	+	NA		NA	=	NA	+	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA	+	NA	*Systemic*	1.96E-01	=	1.60E-01	+	3.64E-02	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA	*Systemic, Circulatory*	2.80E-03	=	2.28E-03	+	5.20E-04	+	NA
Fluorene	NA	=	NA	+	NA	+	NA	*Circulatory*	2.85E-03	=	2.32E-03	+	5.29E-04	+	NA
Indeno(1,2,3-cd)pyrene	2.78E-06	=	2.26E-06	+	5.16E-07	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA	*Respiratory, Systemic*	3.07E+01	=	1.89E-01	+	4.30E-02	+	3.05E+01
Pyrene	NA	=	NA	+	NA	+	NA	*Systemic*	5.23E-03	=	4.26E-03	+	9.71E-04	+	NA
VOCs															
1,2,3-Trimethylbenzene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
1,2,4-Trichlorobenzene	NA	=	NA	+	NA	+	NA	*Systemic, Adrenal*	1.13E+00	=	8.54E-02	+	NA	+	1.04E+00
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	2.90E-01	=	2.72E-04	+	NA	+	2.90E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	1.65E-01	=	1.27E-04	+	NA	+	1.65E-01
Benzene	1.22E-06	=	3.83E-08	+	NA	+	1.19E-06	*Circulatory*	3.67E-01	=	1.22E-02	+	NA	+	3.55E-01
Ethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, Teratology*	2.90E-02	=	1.48E-03	+	NA	+	2.76E-02
n-Butyl benzene	NA	=	NA	+	NA	+	NA	*Systemic*	4.78E-03	=	4.78E-03	+	NA	+	NA
p-Isopropyltoluene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
sec-Butyl benzene	NA	=	NA	+	NA	+	NA	*Systemic*	4.05E-03	=	4.05E-03	+	NA	+	NA
Toluene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	2.41E-02	=	5.43E-05	+	NA	+	2.40E-02
Xylenes (total)	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	1.19E+00	=	2.13E-03	+	NA	+	1.19E+00
Soil CR	**7E-05**	=	6E-05	+	1E-05	+	1E-06	**Soil HI**	**36**	=	2	+	0.3	+	34

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index
CNS – Central Nervous System

Target Organ HI	
Respiratory	3E+01
Circulatory	4E-01
Systemic	3E+01
Adrenal	1E+00
CNS	2E+00
Teratology	3E-02
Skin	1E-02

Table 32
Subsistence Fisher Risk Summary
Reasonable Maximum Exposure

	Carcinogenic Risk unitless		Noncarcinogenic Hazard unitless
Shorthead Redhorse & Walleye			
1-Methylnaphthalene	NA		0.01
Smelt			
Benzo(a)anthracene	5.90E-05		NA
Benzo(a)pyrene	5.21E-05		NA
Benzo(b)fluoranthene	6.60E-06		NA
Benzo(e)pyrene	NA		NA
Dibenzo(a,h)anthracene	9.03E-06		NA
Indeno(1,2,3-cd)pyrene	2.64E-06		NA
Fish CR	**1E-04**	**Fish HI**	0.01

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

Table 33
Residential Risk Summary (0-1 feet)
Reasonable Maximum Exposure

	Total Carcinogenic Risk								Total Noncarcinogenic Risk						
Chemical	**Total Risk**	**=**	**Ingestion**		**Dermal Contact**	**+**	**Inhalation**		**Total Hazard**	**=**	**Ingestion**	+	**Dermal Contact**	**+**	**Inhalation**
Inorganics															
Arsenic	9.47E-06	=	8.61E-06	+	8.58E-07	+	1.25E-09		1.70E-01	=	1.56E-01	+	1.38E-02	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
SVOCs															
Benzo(a)pyrene	2.93E-06	=	2.08E-06	+	8.53E-07	+	1.27E-11		NA	=	NA	+	NA	+	NA
Soil CR	**1E-05**	=	1E-05	+	2E-06	+	1E-09	**Soil HI**	**0.2**	=	0.2	**+**	0.01	**+**	NA

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Table 34
Residential Risk Summary (0-3 feet)
Reasonable Maximum Exposure

	Total Carcinogenic Risk								Total Noncarcinogenic Risk							
Equation unitless	Total Risk unitless	=	Ingestion unitless	+	Dermal Contact unitless	+	Inhalation unitless		Total Hazard unitless	=	Ingestion unitless	+	Dermal Contact unitless	+	Inhalation unitless
Inorganics															
Arsenic	9.65E-06	=	8.78E-06	+	8.74E-07	+	1.27E-09		1.73E-01	=	1.59E-01	+	1.41E-02	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA		4.14E-03	=	3.03E-03	+	1.10E-03	+	NA
Benzo(a)anthracene	2.19E-05	=	1.55E-05	+	6.36E-06	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	2.60E-04	=	1.84E-04	+	7.55E-05	+	1.12E-09		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	2.17E-05	=	1.54E-05	+	6.31E-06	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	6.81E-07	=	4.83E-07	+	1.98E-07	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	1.23E-05	=	8.70E-06	+	3.57E-06	+	NA		NA	=	NA	+	NA	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA		1.15E-03	=	8.46E-04	+	3.08E-04	+	NA
Indeno(1,2,3-cd)pyrene	5.47E-06	=	3.88E-06	+	1.59E-06	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA		3.80E-01	=	4.13E-03	+	1.50E-03	+	3.75E-01
Pyrene	NA	=	NA	+	NA	+	NA		2.73E-03	=	2.00E-03	+	7.29E-04	+	NA
VOCs															
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA		2.01E-01	=	3.35E-04	+	NA	+	2.00E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA		8.92E-03	=	1.23E-05	+	NA	+	8.91E-03
Benzene	2.62E-06	=	1.66E-07	+	NA	+	2.45E-06		1.07E-01	=	6.17E-03	+	NA	+	1.01E-01
Soil CR	***3E-04***	=	2E-04	+	9E-05	+	2E-06	**Soil HI**	***0.9***	=	0.2	+	0.02	+	0.7

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Table 35
Residential Risk Summary (0-10 feet)
Central Tendency Evaluation

	Total Carcinogenic Risk								Total Noncarcinogenic Risk						
Equation	CR		Ingestion		Dermal Contact		Inhalation		HQ		Ingestion		Dermal Contact		Inhalation
Units	unitless	=	unitless	+	unitless	+	unitless	Target Organs	unitless	=	unitless	+	unitless	+	unitless
Inorganics															
Arsenic	4.24E-06	=	4.10E-06	+	1.45E-07	+	NA	*Skin, Circulatory*	9.48E-02	=	9.16E-02	+	3.24E-03	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Thallium	NA	=	NA	+	NA	+	NA	*Systemic*	6.26E-02	=	6.26E-02	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	7.88E-03	=	6.88E-03	+	1.00E-03	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	1.43E-01	=	1.29E-01	+	1.44E-02	+	NA
Acenaphthene	NA	=	NA	+	NA	+	NA	*Systemic*	2.66E-03	=	2.32E-03	+	3.38E-04	+	NA
Benzo(a)anthracene	7.78E-06	=	6.79E-06	+	9.91E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	6.53E-05	=	5.70E-05	+	8.31E-06	+	3.61E-10		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	6.93E-06	=	6.05E-06	+	8.83E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	3.38E-07	=	2.95E-07	+	4.31E-08	+	NA		NA	=	NA	+	NA	+	NA
Chrysene	7.46E-08	=	6.51E-08	+	9.50E-09	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	1.08E-05	=	9.42E-06	+	1.37E-06	+	NA		NA	=	NA	+	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA	+	NA	*Systemic*	1.71E-02	=	1.49E-02	+	2.17E-03	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA	*Systemic, Circulatory*	6.73E-03	=	5.87E-03	+	8.55E-04	+	NA
Fluorene	NA	=	NA	+	NA	+	NA	*Circulatory*	4.64E-03	=	4.05E-03	+	5.90E-04	+	NA
Indeno(1,2,3-cd)pyrene	1.83E-06	=	1.59E-06	+	2.33E-07	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA	*Respiratory, Systemic*	2.76E+00	=	1.55E-02	+	2.26E-03	+	2.74E+00
Phenanthrene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Pyrene	NA	=	NA	+	NA	+	NA	*Systemic*	1.20E-03	=	1.05E-03	+	1.53E-04	+	NA
VOCs															
1,2,4-Trichlorobenzene	NA	=	NA	+	NA	+	NA	*Systemic, Adrenal*	3.52E-01	=	9.87E-03	+	NA	+	3.42E-01
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	2.64E-01	=	4.82E-04	+	NA	+	2.64E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	5.60E-01	=	8.80E-04	+	NA	+	5.59E-01
Benzene	2.94E-07	=	2.94E-07	+	NA	+	1.01E-15	*Circulatory*	2.69E-01	=	1.34E-02	+	NA	+	2.56E-01
Xylenes (total)	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	1.36E-01	=	1.86E-03	+	NA	+	1.34E-01
ILCR	***1E-04***	=	9E-05	+	1E-05	+	4E-10	**Soil HI**	**5**	=	0.4	+	0.03	+	4

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index
CNS – Central Nervous System

Target Organ HI	
Respiratory	3E+00
Systemic	4E+00
Circulatory	4E-01
Adrenal	4E-01
CNS	1E+00
Skin	9E-02

Table 36
Residential Risk Summary (0-3 feet)
Central Tendency Evaluation

	Total Carcinogenic Risk								Total Noncarcinogenic Risk						
Equation	CR	=	Ingestion	+	Dermal Contact	+	Inhalation		HQ	=	Ingestion	+	Dermal Contact	+	Inhalation
Units	unitless		unitless		unitless		unitless		unitless		unitless		unitless		unitless
Inorganics															
Arsenic	2.93E-06	=	2.83E-06	+	1.00E-07	+	4.27E-10		7.45E-02	=	6.33E-02	+	1.12E-02	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA		1.14E-03	=	6.58E-04	+	4.79E-04	+	NA
Benzo(a)anthracene	3.07E-06	=	2.68E-06	+	3.91E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	3.71E-05	=	3.24E-05	+	4.73E-06	+	2.05E-10		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	3.26E-06	=	2.84E-06	+	4.15E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	1.05E-07	=	9.19E-08	+	1.34E-08	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	2.10E-06	=	1.83E-06	+	2.67E-07	+	NA		NA	=	NA	+	NA	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA		3.09E-04	=	1.79E-04	+	1.30E-04	+	NA
Indeno(1,2,3-cd)pyrene	8.22E-07	=	7.17E-07	+	1.05E-07	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA		1.19E-01	=	9.00E-04	+	6.55E-04	+	1.18E-01
Pyrene	NA	=	NA	+	NA	+	NA		7.03E-04	=	4.07E-04	+	2.96E-04	+	NA
VOCs															
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA		6.76E-02	=	7.84E-05	+	NA	+	6.75E-02
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA		3.12E-03	=	2.98E-06	+	NA	+	3.12E-03
Benzene	5.10E-07	=	3.12E-08	+	NA	+	4.78E-07		3.49E-02	=	1.43E-03	+	NA	+	3.35E-02
Soil CR	***5E-05***	=	4E-05	+	6E-06	+	5E-07	**Soil HI**	***0.3***	=	0.07	+	0.01	+	0.2

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Table 36
Residential Risk Summary (0-1 feet)
Reasonable Maximum Exposure

	Total Carcinogenic Risk								Total Noncarcinogenic Risk						
Chemical	**Total Risk**	**=**	**Ingestion**		**Dermal Contact**	**+**	**Inhalation**		**Total Hazard**	**=**	**Ingestion**	+	**Dermal Contact**	**+**	**Inhalation**
Inorganics															
Arsenic	3.62E-06	=	3.50E-06	+	1.24E-07	+	5.27E-10		8.09E-02	=	7.82E-02	+	2.76E-03	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
SVOCs															
Benzo(a)pyrene	9.69E-07	=	8.46E-07	+	1.23E-07	+	5.35E-12		NA	=	NA	+	NA	+	NA
Soil CR	**5E-06**	=	4E-06	+	2E-07	+	5E-10	**Soil HI**	**0.1**	=	0.1	**+**	0.00	**+**	NA

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Table 38
Construction Worker Risk Summary
Reasonable Maximum Exposure

	Carcinogenic Risk							Target Organs	Noncarcinogenic Hazard						
Equation	CR	=	Ingestion	+	Dermal	+	Inhalation		HQ	=	Ingestion	+	Dermal	+	Inhalation
Units	unitless		unitless		unitless		unitless		unitless		unitless		unitless		unitless
Inorganics															
Arsenic	9.42E-08	=	8.29E-08	+	5.05E-09	+	6.31E-09	*Skin, Circulatory*	1.37E-02	=	1.29E-02	+	7.86E-04	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Manganese	NA	=	NA	+	NA	+	NA	*CNS*	1.42E-01	=	1.89E-03	+	NA	+	1.40E-01
Vanadium	NA	=	NA	+	NA	+	NA	*Skin*	3.86E-03	=	3.86E-03	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	2.20E-02	=	1.76E-02	+	4.41E-03	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	4.08E-01	=	3.42E-01	+	6.60E-02	+	NA
Acenaphthene	NA	=	NA	+	NA	+	NA	*Systemic*	6.90E-04	=	5.52E-04	+	1.38E-04	+	NA
Acenaphthylene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)anthracene	1.91E-06	=	1.52E-06	+	3.82E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	1.37E-05	=	1.10E-05	+	2.75E-06	+	3.51E-08		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	8.33E-07	=	6.66E-07	+	1.67E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	1.03E-07	=	8.25E-08	+	2.07E-08	+	NA		NA	=	NA	+	NA	+	NA
Chrysene	1.71E-08	=	1.36E-08	+	3.42E-09	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	2.05E-06	=	1.64E-06	+	4.11E-07	+	NA		NA	=	NA	+	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA	+	NA	*Systemic*	5.30E-02	=	4.24E-02	+	1.06E-02	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA	*Systemic, Circulatory*	7.57E-04	=	6.05E-04	+	1.52E-04	+	NA
Fluorene	NA	=	NA	+	NA	+	NA	*Circulatory*	7.71E-04	=	6.16E-04	+	1.55E-04	+	NA
Indeno(1,2,3-cd)pyrene	7.51E-07	=	6.01E-07	+	1.51E-07	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA	*Respiratory, Systemic*	2.32E+01	=	5.00E-02	+	1.26E-02	+	2.32E+01
Pyrene	NA	=	NA	+	NA	+	NA	*Systemic*	1.41E-03	=	1.13E-03	+	2.83E-04	+	NA
VOCs															
1,2,3-Trimethylbenzene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
1,2,4-Trichlorobenzene	NA	=	NA	+	NA	+	NA	*Systemic, Adrenal*	8.13E-01	=	2.27E-02	+	NA	+	7.90E-01
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	2.20E-01	=	7.22E-05	+	NA	+	2.20E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	1.25E-01	=	3.37E-05	+	NA	+	1.25E-01
Benzene	9.10E-07	=	1.02E-08	+	NA	+	9.00E-07	*Circulatory*	2.73E-01	=	3.24E-03	+	NA	+	2.69E-01
Ethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, Teratology*	2.13E-02	=	3.93E-04	+	NA	+	2.09E-02
n-Butyl benzene	NA	=	NA	+	NA	+	NA	*Systemic*	1.27E-03	=	1.27E-03	+	NA	+	NA
p-Isopropyltoluene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
sec-Butyl benzene	NA	=	NA	+	NA	+	NA	*Systemic*	1.08E-03	=	1.08E-03	+	NA	+	NA
Toluene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	1.83E-02	=	1.44E-05	+	NA	+	1.83E-02
Xylenes (total)	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	9.05E-01	=	5.64E-04	+	NA	+	9.05E-01
Soil CR	**2E-05**	=	2E-05	+	4E-06	+	9E-07	**Soil HI**	**26**	=	1	+	0.1	+	26

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index
CNS – Central Nervous System

Target Organ HI	
Respiratory	2E+01
Circulatory	3E-01
Systemic	2E+01
Adrenal	8E-01
CNS	1E+00
Teratology	2E-02
Skin	4E-03

Table 39
Industrial Worker Indoor Air Risk Summary
Central Tendency Evaluation

	Carcinogenic Risk unitless		Noncarcinogenic Hazard unitless
1,2,4-Trimethylbenzene	NA		8.55E-01
1,3,5-Trimethylbenzene	NA		2.06E-01
1,4-Dichlorobenzene	NA		1.58E-01
Benzene	6.76E-06		1.69E-01
Carbon tetrachloride	3.63E-06		NA
Methylene chloride	5.18E-08		2.14E-04
Trichloroethylene	8.17E-06		1.05E-02
Air CR	**2E-05**	**Air HI**	**1**

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Table 40
Subsistence Fisher Risk Summary
Central Tendency Exposure

	Risk		Hazard
Shorthead Redhorse & Walleye			
1-Methylnaphthalene	NA		3.40E-04
Smelt			
Benzo(a)anthracene	1.64E-07		NA
Benzo(a)pyrene	1.92E-06		NA
Benzo(b)fluoranthene	2.48E-07		NA
Benzo(e)pyrene	NA		NA
Dibenzo(a,h)anthracene	5.75E-07		NA
Indeno(1,2,3-cd)pyrene	1.68E-07		NA
Total CR	3E-06	***HI***	3E-04

Notes:

NA – Not Applicable
CR – Cancer Risk
HI – Hazard Index

Table 41
Residential Risk Summary (0-10 feet)
Excluding VOC Concentrations Exceeding Csat Values
Reasonable Maximum Exposure

	Total Carcinogenic Risk								Total Noncarcinogenic Risk						
Chemical	**Total Risk**	**=**	**Ingestion**		**Dermal Contact**	**+**	**Inhalation**	**Target Organs**	**Total Hazard**	**=**	**Ingestion**	**+**	**Dermal Contact**	**+**	**Inhalation**
Inorganics															
Arsenic	1.31E-05	=	1.19E-05	+	1.18E-06	+	1.72E-09	*Skin, Circulatory*	2.35E-01	=	2.16E-01	+	1.91E-02	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Thallium	NA	=	NA	+	NA	+	NA	*Systemic*	1.31E-02	=	1.31E-02	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	3.74E-02	=	2.74E-02	+	9.98E-03	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	5.89E-01	=	4.60E-01	+	1.29E-01	+	NA
Acenaphthene	NA	=	NA	+	NA	+	NA	*Systemic*	1.06E-03	=	7.76E-04	+	2.82E-04	+	NA
Benzo(a)anthracene	3.96E-05	=	2.81E-05	+	1.15E-05	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	3.14E-04	=	2.23E-04	+	9.14E-05	+	1.36E-09		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	3.43E-05	=	2.43E-05	+	9.97E-06	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	1.63E-06	=	1.16E-06	+	4.74E-07	+	NA		NA	=	NA	+	NA	+	NA
Chrysene	3.77E-07	=	2.67E-07	+	1.10E-07	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	5.02E-05	=	3.56E-05	+	1.46E-05	+	NA		NA	=	NA	+	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA	+	NA	*Systemic*	8.66E-02	=	6.35E-02	+	2.31E-02	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA	*Systemic, Circulatory*	2.77E-03	=	2.03E-03	+	7.40E-04	+	NA
Fluorene	NA	=	NA	+	NA	+	NA	*Circulatory*	2.00E-03	=	1.47E-03	+	5.34E-04	+	NA
Indeno(1,2,3-cd)pyrene	8.61E-06	=	6.11E-06	+	2.50E-06	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA	*Systemic, Respiratory*	1.10E+01	=	1.19E-01	+	4.33E-02	+	1.08E+01
Phenanthrene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Pyrene	NA	=	NA	+	NA	+	NA	*Kidney*	4.98E-03	=	3.65E-03	+	1.33E-03	+	NA
VOCs															
1,2,4-Trichlorobenzene	NA	=	NA	+	NA	+	NA	*Systemic, Adrenal*	2.97E-01	=	3.79E-02	+	NA	+	2.59E-01
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	9.26E-01	=	1.55E-03	+	NA	+	9.24E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	4.12E-02	=	5.66E-05	+	NA	+	4.12E-02
Benzene	1.92E-05	=	1.22E-06	+	NA	+	1.80E-05	*Circulatory*	7.83E-01	=	4.52E-02	+	NA	+	7.38E-01
Xylenes (total)	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	1.47E-01	=	4.67E-04	+	NA	+	1.47E-01
Soil CR	***5E-04***	=	3E-04	+	1E-04	+	2E-05	**Soil HI**	***14***	=	1.0	+	0.2	+	13

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Target Organ HI	
Respiratory	1E+01
Systemic	1E+01
Circulatory	1E+00
Adrenal	3E-01
CNS	1E+00
Skin	2E-01

Table 42
Construction Worker Risk Summary
Excluding VOC Concentrations Exceeding Csat Values
Reasonable Maximum Exposure

	Carcinogenic Risk								Noncarcinogenic Hazard						
Equation	CR	=	Ingestion	+	Dermal	+	Inhalation	**Target Organs**	HQ	=	Ingestion	+	Dermal	+	Inhalation
Units	unitless		unitless		unitless		unitless		unitless		unitless		unitless		unitless
Inorganics															
Arsenic	3.67E-07	=	3.39E-07	+	1.88E-08	+	9.02E-09	*Skin* *Circulatory*	5.56E-02	=	5.27E-02	+	2.92E-03	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	7.44E-02	=	6.06E-02	+	1.38E-02	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	1.34E+00	=	1.14E+00	+	2.00E-01	+	NA
Acenaphthene	NA	=	NA	+	NA	+	NA	*Systemic*	2.91E-03	=	2.37E-03	+	5.41E-04	+	NA
Benzo(a)anthracene	8.16E-06	=	6.64E-06	+	1.52E-06	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	7.15E-05	=	5.82E-05	+	1.33E-05	+	6.52E-08		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	4.22E-06	=	3.43E-06	+	7.83E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	4.91E-07	=	4.00E-07	+	9.11E-08	+	NA		NA	=	NA	+	NA	+	NA
Chyrsene	7.50E-08	=	6.11E-08	+	1.39E-08	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	1.08E-05	=	8.82E-06	+	2.01E-06	+	NA		NA	=	NA	+	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA	+	NA	*Systemic*	1.77E-01	=	1.44E-01	+	3.29E-02	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA	*Systemic, Circulatory*	3.26E-03	=	2.66E-03	+	6.06E-04	+	NA
Fluorene	NA	=	NA	+	NA	+	NA	*Circulatory*	2.80E-03	=	2.28E-03	+	5.20E-04	+	NA
Indeno(1,2,3-cd)pyrene	3.86E-06	=	3.15E-06	+	7.18E-07	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA	*Respiratory, Systemic*	3.09E+01	=	1.89E-01	+	4.32E-02	+	3.06E+01
Pyrene	NA	=	NA	+	NA	+	NA	*Systemic*	6.41E-03	=	5.22E-03	+	1.19E-03	+	NA
VOCs															
1,2,4-Trichlorobenzene	NA	=	NA	+	NA	+	NA	*Systemic, Adrenal*	7.18E-02	=	5.45E-03	+	NA	+	6.64E-02
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	2.45E-01	=	2.30E-04	+	NA	+	2.45E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	1.20E-02	=	9.28E-06	+	NA	+	1.20E-02
Benzene	1.15E-06	=	3.61E-08	+	NA	+	1.12E-06	*Circulatory*	3.46E-01	=	1.15E-02	+	NA	+	3.34E-01
Soil CR	***1E-04***	=	8E-05	+	2E-05	+	1E-06	**Soil HI**	**33**	=	2	+	0.3	+	31

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Target Organ HI	
Respiratory	3E+01
Systemic	3E+01
Circulatory	4E-01
Adrenal	7E-02
CNS	3E-01
Skin	6E-02

Table 43
Residential Risk Summary (0-10 feet)
Excluding VOC Concentrations Exceeding Csat Values
Central Tendency Evaluation

	Total Carcinogenic Risk								Total Noncarcinogenic Risk						
Chemical	**Total Risk**	**=**	**Ingestion**		**Dermal Contact**	**+**	**Inhalation**	**Target Organs**	**Total Hazard**	**=**	**Ingestion**		**Dermal Contact**	**+**	**Inhalation**
Inorganics															
Arsenic	4E-06	=	4E-06	+	1E-07	+	NA	*Skin Circulatory*	9E-02	=	9.16E-02	+	3.24E-03	+	3.40E-07
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Thallium	NA	=	NA	+	NA	+	NA	*Systemic*	6E-02	=	6.26E-02	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	8E-03	=	6.88E-03	+	1.00E-03	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA	+	NA	*Respiratory*	1E-01	=	1.29E-01	+	1.44E-02	+	NA
Acenaphthene	NA	=	NA	+	NA	+	NA	*Systemic*	3E-03	=	2.32E-03	+	3.38E-04	+	NA
Benzo(a)anthracene	8E-06	=	7E-06	+	1E-06	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	7E-05	=	6E-05	+	8E-06	+	4E-10		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	7E-06	=	6E-06	+	9E-07	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	3E-07	=	3E-07	+	4E-08	+	NA		NA	=	NA	+	NA	+	NA
Chrysene	7E-08	=	7E-08	+	9E-09	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	1E-05	=	9E-06	+	1E-06	+	NA		NA	=	NA	+	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA	+	NA	*Systemic*	2E-02	=	1.49E-02	+	2.17E-03	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA	*Systemic, Circulatory*	7E-03	=	5.87E-03	+	8.55E-04	+	NA
Fluorene	NA	=	NA	+	NA	+	NA	*Circulatory*	5E-03	=	4.05E-03	+	5.90E-04	+	NA
Indeno(1,2,3-cd)pyrene	2E-06	=	2E-06	+	2E-07	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA	*Respiratory, Systemic*	3E+00	=	1.55E-02	+	2.26E-03	+	2.74E+00
Phenanthrene	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
Pyrene	NA	=	NA	+	NA	+	NA	*Systemic*	1E-03	=	1.05E-03	+	1.53E-04	+	NA
VOCs															
1,2,4-Trichlorobenzene	NA	=	NA	+	NA	+	NA	*Systemic, Adrenal*	4E-01	=	9.87E-03	+	NA	+	3.42E-01
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	3E-01	=	4.82E-04	+	NA	+	2.64E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	1E-01	=	1.87E-04	+	NA	+	1.19E-01
Benzene	3E-07	=	3E-07	+	NA	+	1E-15	*Circulatory*	3E-01	=	1.34E-02	+	NA	+	2.56E-01
Xylenes (total)	NA	=	NA	+	NA	+	NA	*Systemic, CNS*	3E-02	=	4.70E-04	+	NA	+	3.38E-02
Soil CR	***1E-04***	=	9E-05	+	1E-05	+	4E-10	**Soil HI**	**4**	=	0.4	+	0.03	+	4

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Target Organ HI	
Respiratory	3E+00
Systemic	4E+00
Circulatory	4E-01
Adrenal	4E-01
CNS	4E-01
Skin	9E-02

Table 44
Construction Worker Risk Summary
Excluding VOC Concentrations Exceeding Csat Values
Central Tendency Evaluation

	Carcinogenic Risk								Target Organs	Noncarcinogenic Hazard						
Equation	CR	=	Ingestion	+	Dermal	+	Inhalation			HQ	=	Ingestion	+	Dermal	+	Inhalation
Units	unitless		unitless		unitless		unitless			unitless		unitless		unitless		unitless
Inorganics																
Arsenic	8.82E-08	=	7.76E-08	+	4.73E-09	+	5.91E-09		*Skin Circulatory*	1.28E-02	=	1.21E-02	+	7.35E-04	+	NA
Lead	NA	=	NA	+	NA	+	NA			NA	=	NA	+	NA	+	NA
SVOCs																
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA		*Respiratory*	1.38E-02	=	1.10E-02	+	2.76E-03	+	NA
2-Methylnaphthalene	NA	=	NA	+	NA	+	NA		*Respiratory*	2.47E-01	=	2.07E-01	+	3.99E-02	+	NA
Acenaphthene	NA	=	NA	+	NA	+	NA		*Systemic*	5.67E-04	=	4.53E-04	+	1.14E-04	+	NA
Benzo(a)anthracene	1.64E-06	=	1.31E-06	+	3.28E-07	+	NA			NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	1.42E-05	=	1.13E-05	+	2.84E-06	+	3.63E-08			NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	8.59E-07	=	6.86E-07	+	1.72E-07	+	NA			NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	9.75E-08	=	7.79E-08	+	1.96E-08	+	NA			NA	=	NA	+	NA	+	NA
Chrysene	1.51E-08	=	1.20E-08	+	3.02E-09	+	NA			NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	2.17E-06	=	1.74E-06	+	4.36E-07	+	NA			NA	=	NA	+	NA	+	NA
Dibenzofuran	NA	=	NA	+	NA	+	NA		*Systemic*	3.38E-02	=	2.70E-02	+	6.78E-03	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA		*Systemic, Circulatory*	6.57E-04	=	5.26E-04	+	1.32E-04	+	NA
Fluorene	NA	=	NA	+	NA	+	NA		*Circulatory*	5.54E-04	=	4.43E-04	+	1.11E-04	+	NA
Indeno(1,2,3-cd)pyrene	7.65E-07	=	6.12E-07	+	1.53E-07	+	NA			NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA		*Respiratory, Systemic*	8.08E+00	=	3.43E-02	+	8.61E-03	+	8.04E+00
Pyrene	NA	=	NA	+	NA	+	NA		*Systemic*	1.29E-03	=	1.03E-03	+	2.58E-04	+	NA
VOCs																
1,2,4-Trichlorobenzene	NA	=	NA	+	NA	+	NA		*Systemic, Adrenal*	1.67E-02	=	7.88E-04	+	NA	+	1.59E-02
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA		*Systemic, CNS*	5.91E-02	=	3.83E-05	+	NA	+	5.90E-02
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA		*Systemic, CNS*	3.13E-03	=	1.67E-06	+	NA	+	3.13E-03
Benzene	2.44E-07	=	5.33E-09	+	NA	+	2.39E-07		*Circulatory*	7.31E-02	=	1.70E-03	+	NA	+	7.15E-02
Soil CR	**2E-05**	=	2E-05	+	4E-06	+	3E-07		**Soil HI**	**9**	=	0.3	+	0.06	+	8

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index

Target Organ HI	
Respiratory	8E+00
Systemic	6E-04
Circulatory	9E-02
Adrenal	2E-02
CNS	6E-02
Skin	1E-02

Table 45
Residential Risk Summary (0-3 feet)
Excluding VOCs Exceeding Csat Values
Reasonable Maximum Exposure

	Total Carcinogenic Risk								Total Noncarcinogenic Risk						
Chemical	**Total Risk**	**=**	**Ingestion**		**Dermal Contact**	**+**	**Inhalation**		**Total Hazard**	**=**	**Ingestion**	+	**Dermal Contact**	**+**	**Inhalation**
Inorganics															
Arsenic	9.65E-06	=	8.78E-06	+	8.74E-07	+	1.27E-09		1.73E-01	=	1.59E-01	+	1.41E-02	+	NA
Lead	NA	=	NA	+	NA	+	NA		NA	=	NA	+	NA	+	NA
SVOCs															
1-Methylnaphthalene	NA	=	NA	+	NA	+	NA		4.14E-03	=	3.03E-03	+	1.10E-03	+	NA
Benzo(a)anthracene	2.19E-05	=	1.55E-05	+	6.36E-06	+	NA		NA	=	NA	+	NA	+	NA
Benzo(a)pyrene	2.60E-04	=	1.84E-04	+	7.55E-05	+	1.12E-09		NA	=	NA	+	NA	+	NA
Benzo(b)fluoranthene	2.17E-05	=	1.54E-05	+	6.31E-06	+	NA		NA	=	NA	+	NA	+	NA
Benzo(k)fluoranthene	6.81E-07	=	4.83E-07	+	1.98E-07	+	NA		NA	=	NA	+	NA	+	NA
Dibenzo(a,h)anthracene	1.23E-05	=	8.70E-06	+	3.57E-06	+	NA		NA	=	NA	+	NA	+	NA
Fluoranthene	NA	=	NA	+	NA	+	NA		1.15E-03	=	8.46E-04	+	3.08E-04	+	NA
Indeno(1,2,3-cd)pyrene	5.47E-06	=	3.88E-06	+	1.59E-06	+	NA		NA	=	NA	+	NA	+	NA
Naphthalene	NA	=	NA	+	NA	+	NA		3.80E-01	=	4.13E-03	+	1.50E-03	+	3.75E-01
Pyrene	NA	=	NA	+	NA	+	NA		2.73E-03	=	2.00E-03	+	7.29E-04	+	NA
VOCs															
1,2,4-Trimethylbenzene	NA	=	NA	+	NA	+	NA		2.02E-01	=	3.38E-04	+	NA	+	2.02E-01
1,3,5-Trimethylbenzene	NA	=	NA	+	NA	+	NA		9.04E-03	=	1.24E-05	+	NA	+	9.02E-03
Benzene	2.64E-06	=	1.67E-07	+	NA	+	2.47E-06		1.08E-01	=	6.22E-03	+	NA	+	1.02E-01
Soil CR	***3E-04***	=	2E-04	+	9E-05	+	2E-06	**Soil HI**	***0.9***	=	0.2	+	0.02	+	0.7

Notes:

NA – Not Applicable
CR – Cancer Risk
HQ – Hazard Quotient
HI – Hazard Index