

# ATTACHMENT F

## McCandless Lot - Soil Sampling Data

- 1) McCandless Soil Sampling Data - Volatiles (One page)
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ATTACHMENT F  
MCCANDLESS LOT SOIL SAMPLE DATA  
VOLATILES  
12/2009 VS 08/2010

Sample Number :	MCC-1		MCC-2		MCC-3		MCC-4		
	CY315	CA045	CY316	CA046	CY317	CA047	CY318	CA048	
Matrix :	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Units :	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Date Sampled :	12/28/2009	8/12/2010	12/28/2009	8/12/2010	12/28/2009	8/12/2010	12/28/2009	8/12/2010	
Time Sampled :	13:30	13:30	14:00	14:00	14:30	14:30	15:00	15:00	
%Moisture :	15	2	21	6	40	6	24	3	
pH :	7.6	8.0	7.1	7.9	7.2	8.0	6.8	6.9	
Dilution Factor :	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Volatiles Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	5.0								
Chloromethane	5.0								
Vinyl chloride	5.0								
Bromomethane	5.0								
Chloroethane	5.0								
Trichlorofluoromethane	5.0								
1,1-Dichloroethene	5.0								
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0								
Acetone	10								
Carbon disulfide	5.0								
Methyl acetate	5.0								
Methylene chloride	5.0	40		23	2.5 J	53		24	
trans-1,2-Dichloroethene	5.0								
Methyl tert-butyl ether	5.0								
1,1-Dichloroethane	5.0								
cis-1,2-Dichloroethane	5.0								
2-Butanone	10								
Bromochloromethane	5.0								
Chloroform	5.0								
1,1,1-Trichloroethane	5.0								
Cyclohexane	5.0								
Carbon tetrachloride	5.0								
Benzene	5.0								
1,2-Dichloroethane	5.0								
1,4-Dioxane	100								
Trichloroethane	5.0								
Methylcyclohexane	5.0								
1,2-Dichloropropane	5.0								
Bromodichloromethane	5.0								
cis-1,3-Dichloropropene	5.0								
4-Methyl-2-pentanone	10								
Toluene	5.0								
trans-1,3-Dichloropropene	5.0								
1,1,2-Trichloroethane	5.0								
Tetrachloroethane	5.0								
2-Hexanone	10								
Dibromochloromethane	5.0								
1,2-Dibromoethane	5.0								
Chlorobenzene	5.0								
Ethylbenzene	5.0								
o-Xylene	5.0								
m,p-Xylene	5.0								
Styrene	5.0								
Bromoform	5.0								
Isopropylbenzene	5.0								
1,1,2,2-Tetrachloroethane	5.0								
1,3-Dichlorobenzene	5.0								
1,4-Dichlorobenzene	5.0								
1,2-Dichlorobenzene	5.0								
1,2-Dibromo-3-chloropropane	5.0								
1,2,4-Trichlorobenzene	5.0								
1,2,3-Trichlorobenzene	5.0								

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits:  $(CRQL * Dilution Factor) / [(100 - \%Moisture) / 100]$

No Flag = Confirmed identification

Flag "J" = Analyte Present. Reported value may not be accurate or precise.

ATTACHMENT F  
MCCANDLESS LOT SOIL SAMPLE DATA  
SEMI-VOLATILES  
12/2009 VS 08/2010 & 10/2010 RESAMPLE

Sample Number :	Matrix :	Units :	Date Sampled :	Time Sampled :	%Moisture :	pH :	Dilution Factor :	MCC-1		MCC-2			MCC-3		MCC-4			
								CY315 Soil ug/Kg	CA045 Soil ug/Kg	CY316 Soil ug/Kg	CA046 Soil ug/Kg	CA072 Soil ug/Kg	CY317 Soil ug/Kg	CA047 Soil ug/Kg	CY318 Soil ug/Kg	CA048 Soil ug/Kg	CA073 Soil ug/Kg	
			12/28/2009	13:30	15	7.6	1.0	8/12/2010	13:30	14:00	14:00	14:00	14:30	14:30	15:00	15:00	15:00	15:00
	Remedial Goal																	
	Objective																	
Semivolatile Compound	CRQL	ug/kg	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag	Result Flag
Acetophenone	170	-											130 J					
Acanaphthylene	170	-												110 J			410	
Diethylphthalate	170	-		74 J					86 J		91 J			78 J			62 J	
Pentachlorophenol	330	500							86 J		82 J							
Phenanthrene	170	-							110 J		290 J		590	180			320	
Anthracene	170	-									110 J						84 J	
Fluoranthene	170	-	140 J						300		500		1400	420			1700	
Pyrene	170	-	120 J						280		970		1000	400			2800 +	
Benzo(a)anthracene	170	-	93 J						170 J		550		520	230			410	
Chrysene	170	-	110 J						200 J		530		650	250 J			490 J	
Bis(2-ethylhexyl)phthalate	170	-											130 J			100 J		
Benzo(b)fluoranthene	170	-	130 J						200		660		570	360			540	
Benzo(k)fluoranthene	170	-	93 J						190 J		260 J		550	240 J			490	
Benzo(a)pyrene	170	1300	130 J						240		500		660	350			920	
Indeno(1,2,3-cd)pyrene	170	-	120 J						210		360 J		510	340			860	
Dibenzo(a,h)anthracene	170	-							75 J					130 J			170 J	
Benzo(g,h)perylene	170	-	140 J						260		330 J		590	420			96 J	1600

\* Remedial Goal Objectives for CU3B Soils: Pentachlorophenol (0.5 mg/kg = 500 ug/kg) [Statewide Health Standards soil to Groundwater]

\* Remedial Goal Objectives for CU3B Soils: Benzo(a)pyrene (1.3 mg/kg = 1300 ug/kg) [Site Specific Risk-Based Values]

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / ((100 - %Moisture) / 100)

\* = Results are reported from diluted analyses

No Flag = Confirmed identification

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ATTACHMENT F  
MCCANDLESS LOT SOIL SAMPLE DATA  
PESTICIDES  
12/2009 VS 08/2010

		MCC-1		MCC-2		MCC-3		MCC-4		
Sample Number :		CY315	CA045	CY316	CA046	CY317	CA047	CY318	CA048	
Matrix :		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	
Units :		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Date Sampled :		12/28/2009	8/12/2010	12/28/2009	8/12/2010	12/28/2009	8/12/2010	12/28/2009	8/12/2010	
Time Sampled :		13:30	13:30	14:00	14:00	14:30	14:30	15:00	15:00	
%Moisture :		15	2	21	6	40	6	24	3	
pH :		7.6	8.0	7.1	7.9	7.2	8.0	6.8	6.9	
Dilution Factor :		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
		*								
Remedial Goal		15	2	21	6	40	6	24	3	
Objective		7.6	8.0	7.1	7.9	7.2	8.0	6.8	6.9	
		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Pesticide Compound	CRQL	ug/kg	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7	-							4.9	
beta-BHC	1.7	-								
delta-BHC	1.7	-								
gamma-BHC (Lindane)	1.7	-								
Heptachlor	1.7	-								
Aldrin	1.7	-								
Heptachlor epoxide	1.7	-								
Endosulfan I	1.7	-								
Dieldrin	3.3	11								
4,4'-DDE	3.3	-						2.6	J	
Endrin	3.3	-						13	J	
Endosulfan II	3.3	-								
4,4'-DDD	3.3	-						7.3		
Endosulfan sulfate	3.3	-								
4,4'-DDT	3.3	-					3.7	J	11	
Methoxychlor	17	-								
Endrin ketone	3.3	-								
Endrin aldehyde	3.3	-								
alpha-Chlordane	1.7	-						0.70	J	
gamma-Chlordane	1.7	-								
Toxaphene	170	-								

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits:  $(CRQL * Dilution Factor) / [(100 - \%Moisture) / 100]$

\* Remedial Goal Objectives for OU3B Soils: Dieldrin (0.011 mg/kg = 11 ug/kg) [Statewide Health Standard Soil to Groundwater]

No Value = Not Detected

No Flag = Confirmed Identification

Flag "J" = Analyte Present. Reported value may not be accurate or precise.

ATTACHMENT F  
MCCANDLESS LOT SOIL SAMPLE DATA  
AROCOLOR  
12/2009 VS 08/2010

		MCC-1		MCC-2		MCC-3		MCC-4	
Sample Number :		CY315	CA045	CY316	CA046	CY317	CA047	CY318	CA048
Matrix :		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Units :		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Date Sampled :		12/28/2009	8/12/2010	12/28/2009	8/12/2010	12/28/2009	8/12/2010	12/28/2009	8/12/2010
Time Sampled :		13:30	13:30	14:00	14:00	14:30	14:30	15:00	15:00
%Moisture :		24	2	25	6	19	6	15	3
pH :		7.6	8.0	7.1	7.9	7.2	8.0	6.8	6.9
Dilution Factor :		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Aroclor Compound	CRQL	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Aroclor-1016	33								
Aroclor-1221	33								
Aroclor-1232	33								
Aroclor-1242	33								
Aroclor-1248	33								
Aroclor-1254	33					29	J	77	J
Aroclor-1260	33							10	J
Aroclor-1262	33								
Aroclor-1268	33								

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits:  $(CRQL * Dilution Factor) / [(100 - \%Moisture) / 100]$

No Value = Not Detected

No Flag = Confirmed identification

Flag "J" = Analyte Present. Reported value may not be accurate or precise.

**ATTACHMENT F  
MCCANDLESS LOT SOIL SAMPLE DATA  
INORGANICS  
12/2009 VS 08/2010**

				MCC-1		MCC-2		MCC-3		MCC-4									
Sample Number :				MCY315	MCA045	MCY316	MCA046	MCY317	MCA047	MCY318	MCA048								
Matrix :				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil								
Units :				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg								
Date Sampled :				12/28/2009	8/12/2010	12/28/2009	8/12/2010	12/28/2009	8/12/2010	12/28/2009	8/12/2010								
Time Sampled :				13:30	13:30	14:00	14:00	14:30	14:30	15:00	15:00								
%Solids :				83.7	97.4	75.8	89.3	79.7	84.2	81.7	87.5								
Dilution Factor :				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0								
ANALYTE		CRQL	mg/kg	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag						
ALUMINUM	20	6200	7730			8570		13100		15600		12700		10300		14200		20800	
ANTIMONY	8	-					R								R	0.30	J	0.42	J
ARSENIC	1	-	2.1			4.2	L	1.7		8.4	L	0.97	J	3.6	L	1.0	J	5.4	L
BARIIUM	20	-	82.8			78.3		123		122		118		89.7		143		188	
BERYLLIUM	0.5	-				0.34	J			0.68				0.37				1.2	
CADIUM	0.5	-	0.15	J				0.028	J										
CALCIUM	500	-	27100			90500	+J	4280		56400	J	2950		108000	+J	3340		2020	J
CHROMIUM	1	-	18.4			17.3		28.9		28.9		24.6		18.8		32.8		37.7	
COBALT	5	-	6.9			5.7		12.9		6.9		11.8		6.0		13.4		12.8	
COPPER	2.5	-	13.2			21.8		12.8		19.7		18.7		17.0		17.6		28.1	
IRON	10	15000	12500			13300		19200		21100		17300		14000		19000		27500	
*LEAD	1	-	31.6			26.1		16.9		21.6		13.7		15.9		11.5		53.7	
MAGNESIUM	500	-	16800			37000		6460		26100		6960		43300		8400		5980	
MANGANESE	1.5	160	215			245		325		354		255		309		309		556	
MERCURY	0.1	-	0.031	J						0.12				0.081	J			0.11	
NICKEL	4	-	10.7			13.4		15.8		16.3		15.4		12.9		20.3		24.2	
POTASSIUM	500	-	2680			3050	+J	4500		4520	+J	4570		4120	+J	4880		6450	+
SELENIUM	3.5	-	1.2	J				1.7	J			1.6	J			1.7	J		
SILVER	1	-					R								R	0.57	J		R
SODIUM	500	-	64.9	J				62.1	J			95.1	J	114		84.7	J		
THALLIUM	2.5	-																	
VANADIUM	5	-	25.6			36.6		34.3		40.8		30.4		28.1		36.1		53.0	
ZINC	6	-	66.6			89.7		57.8		54.7		48.5		50.4		53.8		90.9	
CYANIDE	2.5	-																	

CRQL = Contract Required Quantitation Limit

To calculate sample quantitation limits: (CRQL \* Dilution Factor) / (%Solids/ 100)

\* Remedial Goal Objectives for OU3B Soils = Aluminum (6200 mg/kg); Iron (15000 mg/kg); Manganese (160 mg/kg) [Site Specific Risk-Based Values]

\*+ = Results are reported from diluted analyses.

No Value = Not Detected

No Flag = Confirmed Identification

Flag "J" = Analyte Present. Reported value may not be accurate or precise.

Flag "L" = Analyte present. Reported value may be biased low. Actual value is expected to be higher

Flag "R" = Unusable result. Analyte may or may not be present in the sample

ATTACHMENT F  
MCCANDLESS LOT SOIL SAMPLE DATA  
DIOXINS  
12/2009 VS 09/2010

Sample Number	Units	Date Sampled	Time Sampled	% Solids	Dilution Factor	MCC-1			MCC-2			MCC-3			MCC-4					
						R3335601	R3353801	R3335602	R3353802	R3335603	R3353803	R3335604	R3353804							
Analyte / TEF	CRQL	Objective	CONC	TEQ	Q	CONC	TEQ	Q	CONC	TEQ	Q	CONC	TEQ	Q	CONC	TEQ	Q			
2378-TCDD (1.0)	1	120	0.80	0.80	J	0.39	0.39	J	0.00	0.75	0.75	J	0.33	0.33	J	0.40	0.40	J		
12378-PeCDD (1.0)	5	-	1.89	1.89	J	0.55	0.06	J	0.67	0.67	J	0.93	0.09	J	0.66	0.66	J	0.90	0.09	J
123478-HxCDD (0.10)	5	-	2.16	0.22	J	0.00	0.00	J	0.92	0.09	J	1.74	0.05	J	0.75	0.08	J	0.28	0.01	J
123678-HxCDD (0.10)	5	-	4.22	0.42	J	0.48	0.48	J	1.76	0.18	J	6.17	6.17	J	1.37	0.14	J	0.53	0.53	J
123789-HxCDD (0.10)	5	-	4.48	0.45	J	0.39	0.12	J	2.04	0.20	J	1.70	0.51	J	1.91	0.19	J	0.34	0.10	J
1234678-HpCDD (0.01)	5	-	164	1.64	J	1.02	0.10	J	107	1.07	J	20.30	2.03	J	55	0.55	J	2.32	0.23	J
12346789-OCDD (0.0003)	10	-	5110	1.53	J	0.57	0.06	J	6400	1.92	J	10.80	1.08	J	3600	1.08	J	0.84	0.08	J
2378-TCDF (0.1)	1	-	1.24	0.12	J	1.08	0.11	J	0.64	0.06	J	23.30	2.33	J	1.02	0.10	J	1.61	0.16	J
12378-PeCDF (0.03)	5	-	0.84	0.03	J	4.04	0.40	J	0.31	0.01	J	124	12.40	J	1.25	0.04	J	11.70	1.17	J
23478-PeCDF (0.30)	5	-	1.08	0.32	J	3.36	0.34	J	0.59	0.18	J	69.90	6.99	J	0.90	0.27	J	4.79	0.48	J
123478-HxCDF (0.10)	5	-	0.94	0.09	J	0.57	0.05	J	0.65	0.07	J	24.00	2.40	J	1.12	0.11	J	2.16	0.22	J
123678-HxCDF (0.10)	5	-	0.88	0.09	J	0.00	0.00	J	0.52	0.05	J	0.00	0.00	J	0.74	0.07	J	0.00	0.00	J
234678-HxCDF (0.10)	5	-	1.19	0.12	J	31.40	0.31	J	0.47	0.05	J	1110	11.10	J	0.54	0.05	J	115	1.15	J
123789-HxCDF (0.10)	5	-	0.00	0.00	J	186	1.86	J	0.00	0.00	J	5070	50.70	J	0.27	0.03	J	492	4.92	J
1234678-HpCDF (0.01)	5	-	13.30	0.13	J	2.18	0.02	J	4.65	0.05	J	68	0.68	J	4.47	0.04	J	7.04	0.07	J
1234789-HpCDF (0.01)	5	-	0.66	0.01	J	4320	1.30	J	0.42	0.00	J	56200	16.86	J	0.48	0.00	J	7720	2.32	J
12346789-OCDF (0.0003)	10	-	30.30	0.01	J	197	0.05	J	11.30	0.00	J	5510	1.65	J	11.40	0.00	J	802	0.24	J
TOTAL TEQ						7.87		5.66		4.60		115.60		3.75		12.17		1.49		19.00

TEQs are based on 2005 WHO Scheme.

\* 2378-TCDD TEQ Remedial Goal Objectives for OU3B Soils = 1.2E-04 mg/kg (ppm) = 0.12 ug/kg (ppb) = 120 pg/g (ppt) [Statewide Health Standards Soil to Groundwater]

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