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July 19, 2017

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhineland, WI 54501

Subject: Luedtke Property – Site Investigation cost cap exceedence request (>\$20K).
BRRTS #: 03-35-554426, PECFA #: 54487-1334-11

Dear Ms. Stoltz,

A cost estimate (using Usual & Customary schedule of charges) is being submitted for completion of the site investigation at the subject property located at 11 W. Wisconsin Avenue in Tomahawk, Wisconsin. This is required due to COMM 47 rule changes (Comm 47.337(2)) which requires WDNR approval to exceed the cap, meaning any costs incurred above \$20,000 after April 30, 2006, will not be eligible for reimbursement unless previously approved.

As of today's date, \$12,692.92 has been spent of the \$20,000 Site Investigation Cap and included: [1] Investigation Workplan and [2] Geoprobe Project (25 borings ranging from 8 - 12 feet bgs (depth to water was 7-9 feet bgs) with 73 soil samples and 25 groundwater samples collected for field (PID) and/or laboratory analysis (VOC, PVOC/Naphthalene, Lead).

The proposed workscope to complete the site investigation includes: Drilling Project with the installation of six monitoring wells to approximately 15 feet bgs with soil samples collected for field (PID) and laboratory analysis (GRO, PVOC+Naphthalene, and TCLP-Pb), two rounds of groundwater monitoring from all six site monitoring wells for laboratory analysis(VOC/PVOC, Lead, Nitrate/Nitrite, Sulfate, Dissolved Iron and Manganese), surveying, hydraulic conductivity testing, waste disposal, and completion of the Soil and Groundwater Investigation Report. The cost estimate for the proposed workscope is as follows:

Soil Boring/Monitoring Well Permit	\$ 246.12
Drilling Project	\$ 8,948.53
Groundwater Monitoring (two events)	\$ 2,385.71
Laboratory Analysis	\$ 1,597.18
Surveying	\$ 1,288.88
Hydraulic Conductivity Testing	\$ 828.56
Investigative Waste Disposal	\$ 1,590.55
Soil and Groundwater Investigation Report	\$ 4,965.35
Change Order Request	\$ 381.78
Total	\$22,232.66

METCO is requesting a cost cap exceedence in the amount of **\$14,925.58** (proposed additional costs to complete the investigation \$22,232.66 minus the remaining investigation budget \$7,307.08). This will bring the total site investigation costs to \$34,925.58.

Upon state approval of the proposed workscope and budget, METCO will proceed with the site investigation.

Attached are a site layout map with proposed monitoring well locations, data tables, and draft standardized invoice form for the above workscope as required.

Should you have any questions, comments, or recommendations please contact me at our La Crosse office (608) 781-8879 or email at jasonp@metcohq.com.

Sincerely,



Jason T. Powell
Staff Scientist

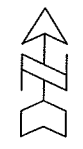
Attachments

c: Todd Luedtke – Client

B.1.b DETAILED SITE MAP
LUEDTKE PROPERTY

METCO
 709 Gillette St., Suite 3
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 Excellence through experience

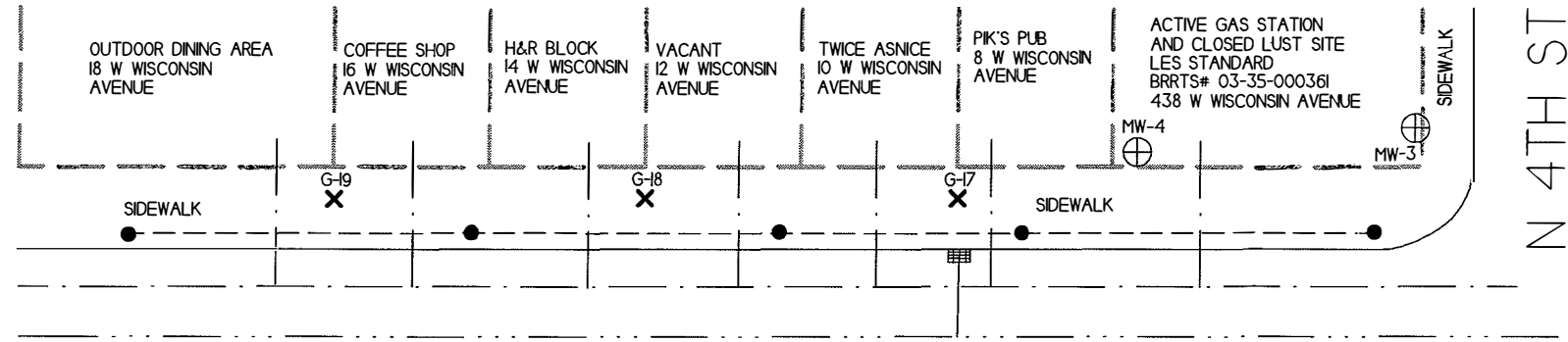
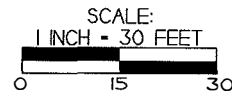
TOMAHAWK, WISCONSIN
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 DATE: 01/18/2007



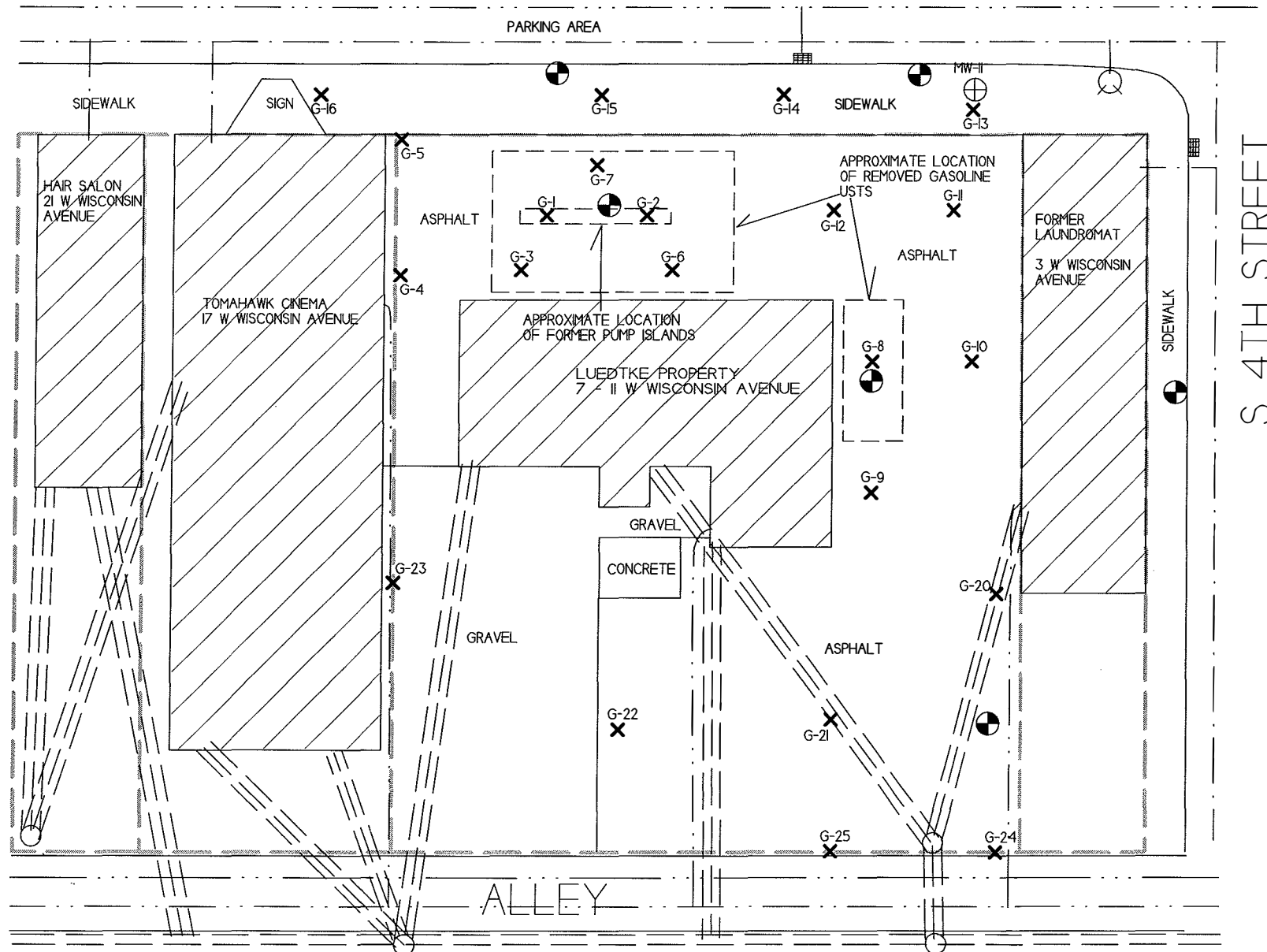
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

- ⊕ - FORMER MONITORING WELL LOCATION - LES STANDARD
- ⊙ - PROPOSED MONITORING WELL LOCATION
- ✕ - SOIL BORING LOCATION
- ▣ - STORM DRAIN
- ⊙ - FIRE HYDRANT
- - LIGHT POLE

- ▬ - PROPERTY BOUNDARY
- - - - - SANITARY SEWER LINE
- - - - - STORM SEWER LINE
- - - - - WATER LINE
- - - - - GAS LINE
- - - - - BURIED ELECTRIC LINE
- ▬▬▬▬▬▬▬ - OVERHEAD ELECTRIC



W WISCONSIN AVENUE



**A.1 Groundwater Analytical Table
(Geoprobe)
Luedtke Property BRRS #03-35-554426**

Sample ID	Date	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
G-1-W	05/08/17	NS	6.8	11.2	<0.43	22.6	3.04	83.6	45.8
G-2-W	05/08/17	NS	36	360	<4.3	97	100	357	1660
G-3-W	05/08/17	NS	5.5	360	<4.3	114	56	316	1320
G-4-W	05/08/17	NS	<0.27	13.1	<0.43	41	1.11	28.1	15.21
G-5-W	05/08/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-6-W	05/08/17	NS	<5.4	202	<8.6	265	41	446	949
G-7-W	05/08/17	NS	39	9.2	<0.43	30.7	4.3	17.2	42.2
G-8-W	05/08/17	NS	19.1	2370	<21.5	750	92	1670	10600
G-9-W	05/08/17	NS	4.0	680	<4.3	440	72	1750	2800
G-10-W	05/08/17	NS	<13.5	320	<21.5	360	<16.5	2100	1110
G-11-W	05/08/17	NS	13	770	<8.6	227	96	814	1180
G-12-W	05/08/17	NS	9.1	330	<8.6	135	46	462	1117
G-13-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-14-W	05/09/17	NS	0.94	6.9	<0.43	<1.7	1.61	7.37	11.22
G-15-W	05/09/17	NS	5.7	1.01	<0.43	<1.7	0.44	1.5	1.27-1.88
G-16-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-17-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-18-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-19-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-20-W	05/09/17	NS	21.6	31.5	<0.43	43	96	305	132
G-21-W	05/09/17	NS	0.92	1.38	<0.43	1.95	2.94	16	4.88
G-22-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-23-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-24-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-25-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
ENFORCEMENT STANDARD ES = Bold		-	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics		-	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

NS = Not Sampled

(ppb) = parts per billion

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

A.2 Soil Analytical Results Table
Luedtke Property BRRTS #03-35-554426

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5		05/08/17	0.4	1.58	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-1-2	8.0		05/08/17	0.7												NS			
G-1-3	10.0		05/08/17	81	NS	NS	NS	<0.025	<0.025	<0.025	0.259	<0.025	0.302	0.154	0.124	NS			
G-2-1	3.5		05/08/17	1.1	1.35	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-2-2	8.0		05/08/17	0.6												NS			
G-2-3	10.0		05/08/17	10.4	NS	NS	NS	0.030	0.073	<0.025	<0.025	<0.025	0.078	<0.025	0.383	NS			
G-3-1	3.5		05/08/17	0.9	3.43	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-3-2	8.0		05/08/17	1												NS			
G-3-3	10.0		05/08/17	3.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-1	3.5		05/08/17	0.6	35.8	NS	NS	<0.025	<0.025	<0.025	0.081	0.080	0.043	<0.025	0.132	NS	0		
G-4-2	8.0		05/08/17	0.9												NS			
G-4-3	10.0		05/08/17	16	NS	NS	NS	<0.025	0.044	<0.025	0.094	<0.025	0.126	0.055	0.057-0.082	NS			
G-5-1	3.5		05/08/17	0.5	132	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.3300	
G-5-2	8.0		05/08/17	0.9												NS			
G-5-3	10.0		05/08/17	0.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-1	3.5		05/08/17	1	2.91	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-6-2	8.0		05/08/17	1.6												NS			
G-6-3	9.0		05/08/17	229	NS	NS	NS	<0.025	0.289	<0.025	3.1	0.079	3.3	1.17	2.00	NS			
G-7-1	3.5		05/08/17	3	14.6	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-7-2	8.0		05/08/17	4.5												NS			
G-7-3	8.5		05/08/17	149	NS	NS	NS	0.072	0.065	<0.025	0.063	<0.025	0.060	0.0287	0.316	NS			
G-8-1	3.5		05/08/17	9	44	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-8-2	8.0		05/08/17	975	11.8	NS	NS	<0.15	2.11	<0.25	5.6	<0.16	32	9.7	11.70	SEE VOC SHEET			
G-8-3	10.0		05/08/17	1006												NS			
G-9-1	3.5		05/08/17	3.2	1.17	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-9-2	8.0		05/08/17	319	NS	NS	NS	<0.125	0.32	<0.125	2.63	<0.125	8.5	9.9	3.27	NS			
G-9-3	10.0		05/08/17	227												NS			
G-10-1	3.5		05/08/17	2.1	4	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-10-2	8.0		05/08/17	1044	NS	NS	NS	0.79	1.87	<0.125	2.1	2.11	41	26	13.58	NS			
G-10-3	10.0		05/08/17	215												NS			
G-11-1	3.5		05/08/17	1.4	3.96	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-11-2	8.0		05/08/17	28												NS			
G-11-3	9.0		05/08/17	35	NS	NS	NS	0.032	0.0305	<0.025	<0.025	<0.025	0.094	0.032	0.32	NS			
G-12-1	3.5		05/08/17	4.5	5.4	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-12-2	8.0		05/08/17	0.7												NS			
G-12-3	9.0		05/08/17	47	NS	NS	NS	<0.025	0.049	<0.025	<0.025	<0.025	0.168	0.062	0.271	NS			
G-13-1	3.5		05/09/17	2.4												NS	0		
G-13-2	8.0		05/09/17	4.9												NS			
G-13-3	10.0		05/09/17	8.7												NS			
G-14-1	3.5		05/09/17	6.1												NS	0		
G-14-2	8.0		05/09/17	6												NS			
G-14-3	9.0		05/09/17	335	NS	NS	NS	<0.025	0.108	<0.025	0.056	<0.025	0.142	0.041	0.362	NS			
G-15-1	3.5		05/09/17	4.9												NS	0		
G-15-2	8.0		05/09/17	8.2												NS			
G-15-3	9.0		05/09/17	37	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-16-1	3.5		05/09/17	5.1												NS	0		
G-16-2	8.0		05/09/17	6.4												NS			
G-16-3	10.0		05/09/17	5.6												NS			
G-17-1	3.5		05/09/17	5.8												NS	0		
G-17-2	8.0		05/09/17	8.6												NS			
G-18-1	3.5		05/09/17	7.3												NS	0		
G-18-2	8.0		05/09/17	5.1												NS			
G-18-3	10.0		05/09/17	6.4												NS			
G-19-1	3.5		05/09/17	5.8												NS	0		
G-19-2	8.0		05/09/17	4.7												NS			
G-19-3	10.0		05/09/17	5.8												NS			
G-20-1	3.5		05/09/17	5.8												NS	0		
G-20-2	8.0		05/09/17	5.8												NS			
G-20-3	9.0		05/09/17	5000	NS	NS	NS	<0.025	0.135	<0.025	2.12	0.115	0.64	2.51	1.05	NS			
G-21-1	3.5		05/09/17	6.7												NS	0		
G-21-2	8.0		05/09/17	8.4												NS			
G-21-3	9.0		05/09/17	5000	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	0.0251	0.055	0.035	<0.075	NS			
G-22-1	3.5		05/09/17	5.1												NS	0		
G-22-2	8.0		05/09/17	6.4												NS			
G-22-3	10.0		05/09/17	7.1												NS			
G-23-1	3.5		05/09/17	3.9												NS	0		
G-23-2	8.0		05/09/17	5.8												NS			
G-23-3	10.0		05/09/17	7.0												NS			
G-24-1	3.5		05/09/17	7.3												NS	0		
G-24-2	8.0		05/09/17	5.1												NS			
G-24-3	10.0		05/09/17	8.9												NS			
G-25-1																NS			
G-25-2	8.0		05/09/17	4.7												NS			
G-25-3	10.0		05/09/17	15.8												NS			
Groundwater RCL					27.00	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38		3.96	-			
Non-Industrial Direct Contact RCL					400.00	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
 NS = Not Sampled NM = Not Measured
 (ppm) = parts per million ND = No Detects
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 PID = Photoionization Detector
 PVOC's = Petroleum Volatile Organic Compounds
 VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
 S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2 Soil Analytical Results Table
 Luedtke Property BRRTS #03-35-554426

Sampling Conducted on May 8, 2017

VOC's		Underline & (Parenthesis Bold = Non-Industrial & Bold) = Industrial Direct Contact Saturation (C- Groundwater Direct Contact Direct Contact Sat) RCL RCL RCL RCL RCL			
Sample ID#	G-8-2				
Sample Depth/ft.	8				
Solids Percent	86.2				
Lead/ppm	11.8	27	400	(800)	==
Benzene/ppm	< 0.15	0.00512	1.6	(7.07)	1820*
Bromobenzene/ppm	< 0.125	==	342	(679)	==
Bromodichloromethane/ppm	< 0.37	0.000326	0.418	(1.83)	==
Bromoform/ppm	< 0.145	0.00233	25.4	(113)	==
tert-Butylbenzene/ppm	< 0.13	==	183	(183)	183*
sec-Butylbenzene/ppm	1.13	==	145	(145)	145*
n-Butylbenzene/ppm	5.4	==	108	(108)	108*
Carbon Tetrachloride/ppm	< 0.08	0.00388	0.916	(4.03)	==
Chlorobenzene/ppm	< 0.065	==	370	(761)	761*
Chloroethane/ppm	< 0.455	0.227	==	==	==
Chloroform/ppm	< 0.175	0.0033	0.454	(1.98)	==
Chloromethane/ppm	< 0.38	0.0155	159	(669)	==
2-Chlorotoluene/ppm	< 0.075	==	==	==	==
4-Chlorotoluene/ppm	< 0.09	==	==	==	==
1,2-Dibromo-3-chloropropane/ppm	< 0.29	0.000173	0.008	(0.092)	==
Dibromochloromethane/ppm	< 0.125	0.032	8.28	(38.9)	==
1,4-Dichlorobenzene/ppm	< 0.185	0.144	3.74	(16.4)	==
1,3-Dichlorobenzene/ppm	< 0.185	1.1528	297	(193)	297*
1,2-Dichlorobenzene/ppm	< 0.14	1.168	376	(376)	376*
Dichlorodifluoromethane/ppm	< 0.24	3.0863	126	(530)	==
1,2-Dichloroethane/ppm	< 0.19	0.00284	0.652	(2.87)	540*
1,1-Dichloroethane/ppm	< 0.17	0.4834	5.06	(22.2)	==
1,1-Dichloroethene/ppm	< 0.11	0.00502	320	(1190)	1190*
cis-1,2-Dichloroethene/ppm	< 0.16	0.0412	156	(2340)	==
trans-1,2-Dichloroethene/ppm	< 0.14	0.626	1560	(1850)	==
1,2-Dichloropropane/ppm	< 0.175	0.00332	0.406	(1.78)	==
1,3-Dichloropropane/ppm	< 0.125	==	1490	(1490)	1490*
trans-1,3-Dichloropropene/ppm	< 0.11	==	1510	(1510)	==
cis-1,3-Dichloropropene/ppm	< 0.195	0.001	1210	(1210)	==
Di-isopropyl ether/ppm	< 0.05	==	2260	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.115	0.0000282	0.05	(0.221)	==
Ethylbenzene/ppm	2.11	1.57	8.02	(35.4)	480*
Hexachlorobutadiene/ppm	< 0.425	==	1.63	(7.19)	==
Isopropylbenzene/ppm	0.9	==	==	==	==
p-Isopropyltoluene/ppm	1.4	==	162	(162)	162*
Methylene chloride/ppm	< 0.75	0.00256	61.8	(1150)	==
Methyl tert-butyl ether (MTBE)/ppm	< 0.25	0.027	63.8	(282)	8870*
Naphthalene/ppm	5.6	0.6582	5.52	(24.1)	==
n-Propylbenzene/ppm	3.8	==	==	==	==
1,1,2,2-Tetrachloroethane/ppm	< 0.14	0.000156	0.81	(3.6)	==
1,1,1,2-Tetrachloroethane/ppm	< 0.14	0.0534	2.78	(12.3)	==
Tetrachloroethene (PCE)/ppm	< 0.16	0.00454	33	(145)	==
Toluene/ppm	< 0.16	1.11	818	(818)	818*
1,2,4-Trichlorobenzene/ppm	< 0.32	0.408	24	(113)	==
1,2,3-Trichlorobenzene/ppm	< 0.33	==	62.6	(934)	==
1,1,1-Trichloroethane/ppm	< 0.15	0.1402	==	==	==
1,1,2-Trichloroethane/ppm	< 0.165	0.00324	1.59	(7.01)	==
Trichloroethene (TCE)/ppm	< 0.205	0.00358	1.3	(8.41)	==
Trichlorofluoromethane/ppm	< 0.205	2.2387	1230	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	32	1.38	219	(219)	219*
1,3,5-Trimethylbenzene/ppm	9.7	==	182	(182)	182*
Vinyl Chloride/ppm	< 0.095	0.000138	0.07	(2.08)	==
m&p-Xylene/ppm	7.8	3.96	260	(260)	258*
o-Xylene/ppm	3.9				

NS = not sampled, NM = Not Measured

(ppm) = parts per million

== No Exceedences

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Usual and Customary Standardized Invoice #22
July 2017 - December 2017



RR-083A

PECFA #: 54487-1334-11
 BRRT's #: 03-35-554426
 Site Name: Luedtke Property
 Site Address: 11 W. Wisconsin Ave., Tomahawk, WI

Vendor Name: _____
 Invoice #: _____
 Invoice Date: _____
 Check #: _____

U&C Total \$22,232.66
 Variance to U&C Total \$-
 Grand Total \$22,232.66

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
1	GW Sampling		GS05	Sample Collection	Well	\$72.45	12	\$869.40
1	GW Sampling		GS10	Incremental Sample Collection (natural attenuation)	Well	\$47.67	6	\$286.02
1	GW Sampling		GS15	Incremental Sample Collection (cadmium & lead)	Well	\$26.25	12	\$315.00
1	GW Sampling		GS25	Primary Mob/Demob	Site	\$628.11	1	\$628.11
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	\$137.13	1	\$137.13
4	Waste Disposal	Commodity	WD10	GW Sample and/or Purge	Drum	\$42.11	2	\$84.22
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	\$108.15	10	\$1,081.50
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	\$287.70	1	\$287.70
10	Initial Site Survey	Consultant	IS05	Coordination of Initial Site Survey (features + well elevations)	Survey	\$117.18	1	\$117.18
10	Initial Site Survey	Commodity	IS15	Initial Survey	Survey	\$1,171.70	1	\$1,171.70
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs	Ft	\$5.40	90	\$486.00
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR20	Primary Mob/Demob	Site	\$593.04	1	\$593.04
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs	Ft	\$16.70	90	\$1,503.00
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	\$3.89	90	\$350.10
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	\$16.70	90	\$1,503.00
14	Monitoring Well Installation	Commodity	MWI20	Well Development	Well	\$147.63	6	\$885.78
15	Misc. Drilling Activities & Supplies		MDT05	Drill Rig Mob/Demob	Mob/Demob	\$963.38	1	\$963.38
15	Misc. Drilling Activities & Supplies		MDT10	Well Cover/flushmount	Each	\$202.65	6	\$1,215.90
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel	Each	\$55.13	12	\$661.56
15	Misc. Drilling Activities & Supplies		MDT25	Commodity Service Provider Per Diem (drilling and direct push)	Person	\$203.28	2	\$406.56
15	Misc. Drilling Activities & Supplies		MDT40	Concrete Penetration	Each	\$72.87	3	\$218.61
15	Misc. Drilling Activities & Supplies		MDT45	Padlocks	Each	\$7.98	6	\$47.88
19	Hydraulic Conductivity Testing		HCT05	Hydraulic Conductivity Testing	Well	\$58.59	3	\$175.77
19	Hydraulic Conductivity Testing		HCT10	Primary Mob/Demob	Site	\$652.79	1	\$652.79
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	\$246.12	1	\$246.12
20	Soil Boring/Monitoring Well Permits		SBMWP10	Permit Fee (copy of permit & fee receipt required)	Permit Fee			
23	Soil And GW Investigation Report		SGIR05	Soil and GW Investigation Report	Report	\$4,965.35	1	\$4,965.35
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	\$113.72	1	\$113.72
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule		63	\$1,597.18
34	Consultant Incremental Mob/Demob		IMD05	Incremental Mob/Demob	Site	\$287.18	1	\$287.18
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$381.78	1	\$381.78

Variance
 Variance

Usual and Customary Standardized Invoice #22
July 2017 - December 2017



RR-083A

TOTAL LAB CHARGES ### TASK 33 63 \$1,597.18 TASK 24 0 \$-

MATRIX REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	\$44.94		\$-			
AIR	A2	BETX	\$49.46		\$-			
AIR	A3	GRO	\$46.10		\$-			
AIR	A4	VOC's	\$71.93		\$-			
WATER	W1	GRO/PVOC	\$29.19		\$-			
WATER	W2	PVOC	\$26.99		\$-			
WATER	W3	PVOC + 1,2 DCA	\$43.79		\$-			
WATER	W4	PVOC + Naphthalene	\$30.35	7	\$212.45			
WATER	W5	VOC	\$71.93	7	\$503.51			
WATER	W6	PAH	\$72.98		\$-			
WATER	W7	Lead	\$12.39	12	\$148.68			
WATER	W8	Cadmium	\$13.55		\$-			
WATER	W9	Hardness	\$12.39		\$-			
WATER	W10	BOD, Total	\$23.63		\$-			
WATER	W11	Nitrate	\$11.24	6	\$67.44			
WATER	W12	Total Kjeldahl	\$20.27		\$-			
WATER	W13	Ammonia	\$16.91		\$-			
WATER	W14	Sulfate	\$10.19	6	\$61.14			
WATER	W15	Iron	\$10.19	6	\$61.14			
WATER	W16	Manganese	\$10.19	6	\$61.14			
WATER	W17	Alkalinity	\$10.19		\$-			
WATER	W18	methane	\$46.10		\$-			
WATER	W19	Phosphorous	\$18.06		\$-			
WATER	W20	VOC Method 524.2	\$176.30		\$-			
WATER	W21	EDB Method 504	\$95.45		\$-			
SOILS	S1	GRO	\$24.78	3	\$74.34	MAX COST		
SOILS	S2	DRO	\$30.35		\$-	\$24.78		\$-
SOILS	S3	GRO/PVOC	\$28.14		\$-	\$30.35		\$-
SOILS	S4	PVOC	\$25.83		\$-	\$28.14		\$-
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	\$49.46		\$-	\$25.83		\$-
SOILS	S6	PVOC + Naphthalene	\$36.02	9	\$324.18	\$49.46		\$-
SOILS	S7	VOC	\$71.93		\$-	\$36.02		\$-
SOILS	S8	SPLP Extraction VOC only	\$50.61		\$-	\$71.93		\$-
SOILS	S9	PAH	\$72.98		\$-	\$50.61		\$-
SOILS	S10	Lead	\$12.39		\$-	\$72.98		\$-
SOILS	S11	Cadmium	\$14.60		\$-	\$12.39		\$-
SOILS	S12	Free Liquid	\$11.24		\$-			
SOILS	S13	Flash Point	\$25.83		\$-			
SOILS	S14	Grain Size - dry	\$42.74		\$-			
SOILS	S15	Grain Size - wet	\$57.33		\$-			
SOILS	S16	Bulk Density	\$13.55		\$-			
SOILS	S17	Permeability	\$41.58		\$-			
SOILS	S18	Nitrogen as Total Kjeldahl	\$20.27		\$-			
SOILS	S19	Nitrogen as Ammonia	\$16.91		\$-			
SOILS	S20	% Organic Matter	\$29.19		\$-			
SOILS	S21	TOC as NPOC	\$57.33		\$-			
SOILS	S22	Soil Moisture Content	\$6.83		\$-			
SOILS	S23	Air Filled Porosity	\$25.83		\$-			
SOILS	S24	% Total Solids	\$6.83		\$-			
SOILS	S25	Field Capacity	\$28.14		\$-			
SOILS	S26	TCLP Lead	\$83.16	1	\$83.16			
SOILS	S27	Cation Exchange (Ca, MG, & K)	\$26.99		\$-			
SOILS	S28	TCLP Cadmium	\$83.16		\$-			
SOILS	S29	TCLP Benzene	\$83.16		\$-			
LNAPL	LFPS01	Viscosity + Density Interfacial tension I (LNAPL/water [dyne/air]) Interfacial tension II (LNAPL/air [dyne/air]) Interfacial tension III (water/air) [dyne/air]	\$561.33		\$-			
TASK 33 TOTAL					\$1,597.18			

MAX COST SAMPLES TOTAL
 \$24.78 \$-
 \$30.35 \$-
 \$28.14 \$-
 \$25.83 \$-
 \$49.46 \$-
 \$36.02 9 \$324.18 \$36.02 \$-
 \$71.93 \$-
 \$50.61 \$-
 \$72.98 \$-
 \$12.39 \$-
TASK 24 TOTAL \$-