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September 11, 2019

Andrew Alles  
Wisconsin Department of Natural Resources  
101 S. Webster Street, P.O. Box 7921  
Madison, WI 53707

**Subject:** Smith Property – Site Investigation cost cap exceedence request (>\$20K).  
BRRTS #: 03-41-506431, PECFA #: 53206-3021-02

Dear Mr. Alles,

A cost estimate (using Usual & Customary schedule of charges) is being submitted for completion of the site investigation at the subject property located at 1102 W. Atkinson Avenue in Milwaukee, 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, \$10,205.12 has been spent of the \$20,000 Site Investigation Cap and included: [1] Field Procedures Workplan and [2] Geoprobe Project with ten borings ranging from 8-15 feet below ground surface (bgs) with 38 soil samples and 2 groundwater samples collected for field (PID) and/or laboratory analysis (VOC, PVOC/Naphthalene, and Lead).

The proposed work scope to complete the site investigation includes: [1] Soil Boring/ Monitoring Well Permit, [2] Drilling Project to include five borings to approximately 14 feet bgs and converted to five monitoring wells to 13 feet bgs with 10-foot screens. We will conduct continuous soil sampling for PID and geologic field description and plan to collect up to 9 soil samples for PVOC+Naphthalene and Lead. One sample will be collected and analyzed for GRO and TCLP Lead & Benzene for waste disposal approval. [3] Three quarterly rounds of groundwater monitoring from all five site wells for laboratory analysis (VOC, PVOC+Naphthalene, Dissolved Lead, Nitrate/ Nitrite, Sulfate, Dissolved Iron and Manganese), [4] Surveying, [5] Waste disposal, [6] Completion of the Soil and Groundwater Investigation Report, [7] Closure Request following Site Investigation Report, [8] Continuing Obligation Packet Submittal (source and off-site), [9] Professional Engineer Review and Certification of Closure Packet, [10] Cap Maintenance Plan, [11] Well Abandonment (if closure is approved) and [12] Due to security issues during the initial Geoprobe Project (even with three people on-site), we will be hiring Great Lakes Security to have an armed guard present anytime that we are on-site. The cost estimate is as follows:

Soil Boring/MW Permits	\$ 253.50
Drilling Project w/installation of MW's	\$ 7,809.01
Groundwater Monitoring (three events)	\$ 3,843.16
Laboratory Analysis (soil & gw)	\$ 1,947.40
Surveying	\$ 1,327.55
Investigative Waste Disposal	\$ 1,392.20
Soil & Groundwater Investigation Report	\$ 5,114.31
Closure Request following SIR	\$ 1,287.50
Continuing Obligation Packet Submittal (source & off-site)	\$ 981.36
Professional Engineer Review & Certification	\$ 1,129.60
Cap Maintenance Plan	\$ 329.64
Well Abandonment (if closure approved)	\$ 789.08
Great Lakes Security (armed guard for field work)	\$ 980.00 (variance)
Change Order Request	\$ 393.23
Total	\$27,577.54

METCO is requesting a cost cap exceedence in the amount of \$17,782.66 (proposed costs to complete the investigation \$27,577.54 minus the remaining site investigation cap \$9,794.88). This will bring the total site investigation costs to \$37,782.66.

Upon state approval of the proposed work scope and budget, METCO will continue with the project.

Attached is an updated site layout map with proposed monitoring well locations, data tables, breakdown of Great Lakes Security costs, and draft standardized invoice form for the above work scope 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](mailto:jasonp@metcohq.com).

Sincerely,



Jason T. Powell  
Staff Scientist

Attachments

c: Thomas Smith, Jr. – Client

B.1.b  
 DETAILED SITE MAP  
 SMITH PROPERTY

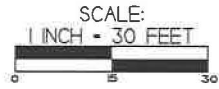
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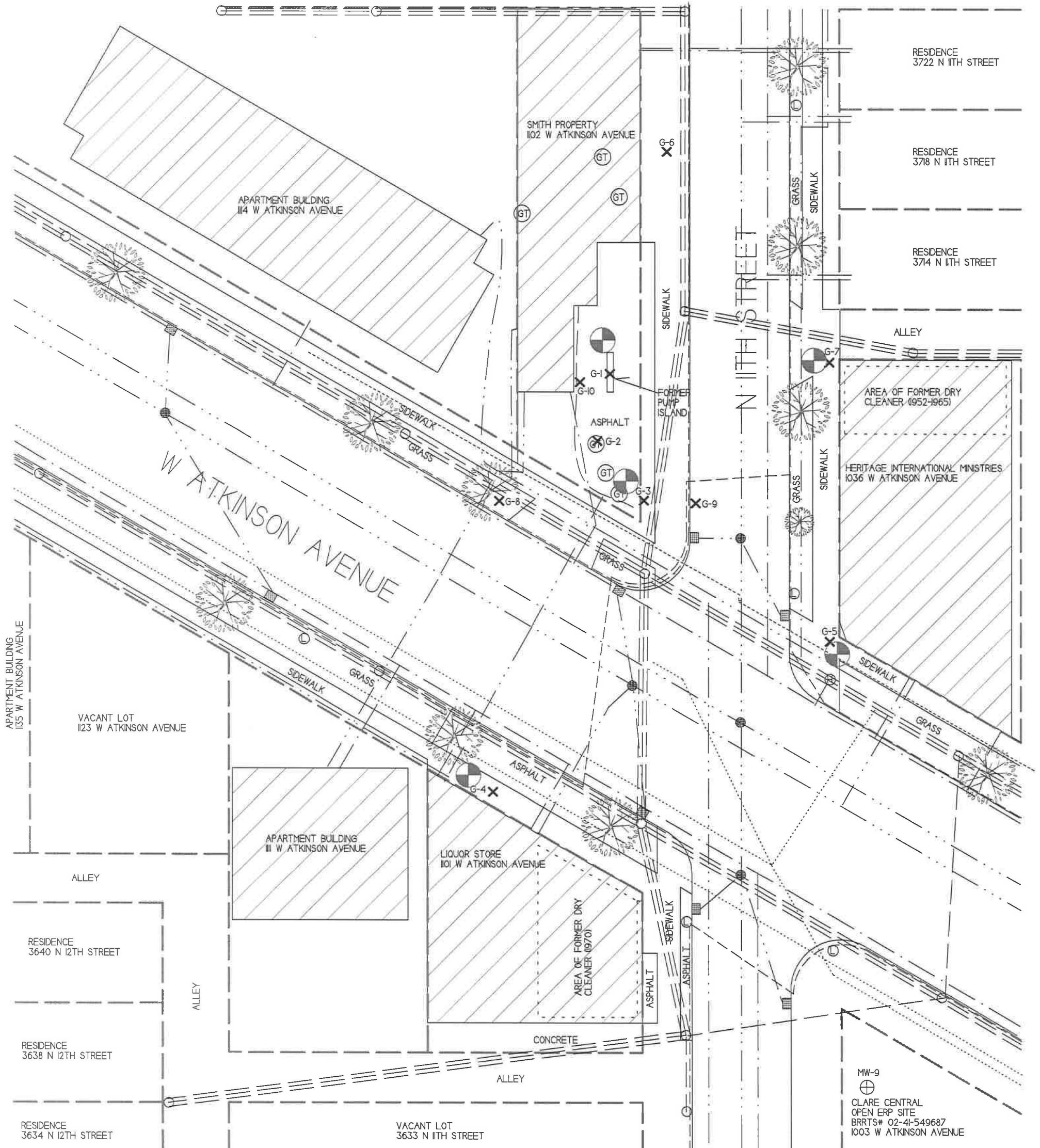
DRAWN BY: ED  
 DATE: 01/1/2019

**METCO**  
 Excellence through experience

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.



- ⊙ - FORMER GAS TANK LOCATION BASED ON 1950 SANBORN MAP
- - UTILITY POLE
- ⊙ - STREET LIGHT
- ⊕ - FIRE HYDRANT
- - SEWER MAN HOLE
- - STORM DRAIN
- ✕ - GEOPROBE BORING LOCATION
- ⊕ - EXISTING MONITORING WELL LOCATION CLARE CENTRAL ERP SITE
- ⊕ - PROPOSED MONITORING WELL LOCATION
- - PROPERTY BOUNDARY
- - - - - WATER LINE
- - - - - SEWER LINE
- - - - - NATURAL GAS LINE
- - - - - BURIED ELECTRIC LINE
- ≡≡≡≡≡≡ - OVERHEAD UTILITIES
- - - - - TELEPHONE/CABLE LINE



**A.1 Groundwater Analytical Table  
(Geoprobe)  
Smith Property BRRTS #03-41-506431**

Sample ID	Date	GRO (ppb)	Benzene (ppb)	Ethyl-benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
G-1-W	8/12/2019	NS	<0.32	<0.29	<0.24	<1.3	<0.29	<1.13	<1.22
G-2-W	8/12/2019	NS	<b>25.4</b>	84	<0.24	11.7	32	133	105.8
<b>ENFORCEMENT STANDARD ES = Bold</b>		-	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<i>PREVENTIVE ACTION LIMIT PAL = Italics</i>		-	<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  
GRO = Gasoline Range Organics

A.2 Soil Analytical Results Table  
 Smith Property BRRTS #03-41-506431

Sampling Conducted on: 8/12/2019

VOC's		Bold = Groundwater RCL	<u>Underline &amp; Bold = Non- Industrial Direct Contact RCL</u>	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C- sat) RCL
Sample ID#	G-3-3				
Sample Depth/ft.	10				
Lead/ppm	159	27	<u>400</u>	(800)	==
Benzene/ppm	5.4	0.0051	<u>1.6</u>	(7.07)	1820*
Bromobenzene/ppm	< 0.25	==	<u>342</u>	(679)	==
Bromodichloromethane/ppm	< 0.74	0.0003	<u>0.418</u>	(1.83)	==
Bromoform/ppm	< 0.29	0.0023	<u>25.4</u>	(113)	==
tert-Butylbenzene/ppm	< 0.26	==	<u>183</u>	(183)	183*
sec-Butylbenzene/ppm	2.08	==	<u>145</u>	(145)	145*
n-Butylbenzene/ppm	8.1	==	<u>108</u>	(108)	108*
Carbon Tetrachloride/ppm	< 0.16	0.0039	<u>0.916</u>	(4.03)	==
Chlorobenzene/ppm	< 0.13	==	<u>370</u>	(761)	761*
Chloroethane/ppm	< 0.91	0.2266	==	==	==
Chloroform/ppm	< 0.35	0.0033	<u>0.454</u>	(1.98)	==
Chloromethane/ppm	< 0.76	0.0155	<u>159</u>	(669)	==
2-Chlorotoluene/ppm	< 0.15	==	<u>907</u>	(907)	907*
4-Chlorotoluene/ppm	< 0.18	==	<u>253</u>	(253)	253*
1,2-Dibromo-3-chloropropane/ppm	< 0.58	0.0002	<u>0.008</u>	(0.092)	==
Dibromochloromethane/ppm	< 0.25	0.032	<u>8.28</u>	(38.9)	==
1,4-Dichlorobenzene/ppm	< 0.37	0.144	<u>3.74</u>	(16.4)	==
1,3-Dichlorobenzene/ppm	< 0.37	1.1528	<u>297</u>	(297)	297*
1,2-Dichlorobenzene/ppm	< 0.28	1.168	<u>376</u>	(376)	376*
Dichlorodifluoromethane/ppm	< 0.48	3.0863	<u>126</u>	(530)	==
1,2-Dichloroethane/ppm	< 0.38	0.0028	<u>0.652</u>	(2.87)	540*
1,1-Dichloroethane/ppm	< 0.34	0.4834	<u>5.06</u>	(22.2)	==
1,1-Dichloroethene/ppm	< 0.22	0.005	<u>320</u>	(1190)	1190*
cis-1,2-Dichloroethene/ppm	< 0.32	0.0412	<u>156</u>	(2340)	==
trans-1,2-Dichloroethene/ppm	< 0.28	0.0626	<u>1560</u>	(1850)	==
1,2-Dichloropropane/ppm	< 0.35	0.0033	<u>3.4</u>	(15)	==
1,3-Dichloropropane/ppm	< 0.25	==	<u>1490</u>	(1490)	1490*
trans-1,3-Dichloropropene/ppm	< 0.22	0.003	<u>1510</u>	(1510)	==
cis-1,3-Dichloropropene/ppm	< 0.39	==	<u>1210</u>	(1210)	==
Di-isopropyl ether/ppm	< 0.1	==	<u>2260</u>	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.23	0.0000282	<u>0.05</u>	(0.221)	==
Ethylbenzene/ppm	50	1.57	<u>8.02</u>	(35.4)	480*
Hexachlorobutadiene/ppm	< 0.85	==	<u>1.63</u>	(7.19)	==
Isopropylbenzene/ppm	4.7	==	==	==	==
p-Isopropyltoluene/ppm	1.02	==	<u>162</u>	(162)	162*
Methylene chloride/ppm	< 1.5	0.0026	<u>61.8</u>	(1150)	==
Methyl tert-butyl ether (MTBE)/ppm	< 0.5	0.027	<u>63.8</u>	(282)	8870*
Naphthalene/ppm	23.5	0.6582	<u>5.52</u>	(24.1)	==
n-Propylbenzene/ppm	17.6	==	==	==	==
1,1,2,2-Tetrachloroethane/ppm	< 0.28	0.0002	<u>0.81</u>	(3.6)	==
1,1,1,2-Tetrachloroethane/ppm	< 0.28	0.0534	<u>2.78</u>	(12.3)	==
Tetrachloroethene (PCE)/ppm	< 0.32	0.0045	<u>33</u>	(145)	==
Toluene/ppm	72	1.1072	<u>818</u>	(818)	818*
1,2,4-Trichlorobenzene/ppm	< 0.64	0.408	<u>24</u>	(113)	==
1,2,3-Trichlorobenzene/ppm	< 0.66	==	<u>62.6</u>	(934)	==
1,1,1-Trichloroethane/ppm	< 0.3	0.1402	<u>640</u>	(640)	640*
1,1,2-Trichloroethane/ppm	< 0.33	0.0032	<u>1.59</u>	(7.01)	==
Trichloroethene (TCE)/ppm	< 0.41	0.0036	<u>1.3</u>	(8.41)	==
Trichlorofluoromethane/ppm	< 0.41	4.4775	<u>1230</u>	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	77	1.3787	<u>219</u>	(219)	219*
1,3,5-Trimethylbenzene/ppm	25.3	==	<u>182</u>	(182)	182*
Vinyl Chloride/ppm	< 0.19	0.0001	<u>0.067</u>	(2.08)	==
m&p-Xylene/ppm	162	3.96	<u>260</u>	(260)	260*
o-Xylene/ppm	54	==	==	==	==

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

Note: Non-Industrial RCLs apply to this site.

A.2 Soil Analytical Results Table  
Smith Property BRRTS #03-41-506431

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethylbenzene (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				
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk		
G-1-1	3.5	U	08/12/19	1.4	<b>29.6</b>	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	2.4E-08		
G-1-2	6.0	U	08/12/19	14.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS					
G-1-3	12.0	S	08/12/19	8.5	NOT SAMPLED																
G-1-4	15.0	S	08/12/19	11.6	NOT SAMPLED																
G-2-1	3.5	U	08/12/19	4.1	<b>41.5</b>	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	2.4E-08		
G-2-2	6.0	U	08/12/19	12.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS					
G-2-3	12.0	S	08/12/19	10.4	NOT SAMPLED																
G-2-4	15.0	S	08/12/19	304.0	NOT SAMPLED																
G-3-1	3.5	U	08/12/19	36.9	<b>271.0</b>	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.6781	2.4E-08		
G-3-2	6.0	U	08/12/19	1533.0	NS	NS	NS	<b>22.2</b>	<b>53</b>	<1.25	<b>24.1</b>	<b>84</b>	<b>96</b>	<b>31.3</b>	<b>242</b>	NS					
G-3-3	10.0	S	08/12/19	1801.0	<b>159.0</b>	NS	NS	<b>5.4</b>	<b>50</b>	<0.5	<b>23.5</b>	<b>72</b>	<b>77</b>	<b>25.3</b>	<b>216</b>	SEE VOC SHEET					
G-3-4	15.0	S	08/12/19	1834.0	NOT SAMPLED																
G-4-1	NO RECOVERY																				
G-4-2	4.0	U	08/13/19	1.7	9.53	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	2.4E-08		
G-4-3	8.0	U	08/13/19	0.3	NS	NS	NS	<0.025	<0.025	<0.025	0.042	<0.025	<0.025	<0.025	<0.075	NS					
G-4-4	12.0	S	08/13/19	0.6	NOT SAMPLED																
G-5-1	3.5	U	08/13/19	0.9	9.87	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	2.4E-08		
G-5-2	7.0	S	08/13/19	NM	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	U	08/13/19	3.1	14.4	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	2.4E-08		
G-6-2	8.0	U	08/13/19	3.2	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS					
G-6-3	12.0	S	08/13/19	2.7	NOT SAMPLED																
G-6-4	15.0	S	08/13/19	3.4	NOT SAMPLED																
G-7-1	3.5	U	08/13/19	4.6	14.4	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	2.4E-08		
G-7-2	8.0	U	08/13/19	3.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS					
G-7-3	12.0	S	08/13/19	2.9	NOT SAMPLED																
G-7-4	15.0	S	08/13/19	2.4	NOT SAMPLED																
G-8-1	3.5	U	08/13/19	1.7	<b>169.0</b>	NS	NS	<b>0.079</b>	<0.025	<0.025	<0.025	0.054	<0.025	<0.025	0.058-0.083	NS	0	0.4236	5.7E-08		
G-8-2	8.0	U	08/13/19	2.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS					
G-8-3	12.0	S	08/13/19	2.9	NOT SAMPLED																
G-8-4	NM	NM	08/13/19	2.9	NOT SAMPLED																
<b>Groundwater RCL</b>					<b>27</b>	-	-	<b>0.0051</b>	<b>1.57</b>	<b>0.027</b>	<b>0.6582</b>	<b>1.1072</b>	<b>1.3787</b>		<b>3.96</b>	-					
<b>Non-Industrial Direct Contact RCL</b>					<b>400</b>	-	-	<b>1.6</b>	<b>8.02</b>	<b>63.8</b>	<b>5.52</b>	<b>818</b>	<b>219</b>	<b>182</b>	<b>260</b>	-	1.00E+00	1.00E-05			
<b>Industrial Direct Contact RCL</b>					<b>(800)</b>	-	-	<b>(7.07)</b>	<b>(35.4)</b>	<b>(282)</b>	<b>(24.1)</b>	<b>(818)</b>	<b>(219)</b>	<b>(182)</b>	<b>(260)</b>	-	1.00E+00	1.00E-05			
<b>Soil Saturation Concentration (C-sat)*</b>					-	-	-	<b>1820*</b>	<b>480*</b>	<b>8870*</b>	-	<b>818*</b>	<b>219*</b>	<b>182*</b>	<b>260*</b>	-					

**Bold = Groundwater RCL Exceedance**  
**Bold & Underline = Non Industrial Direct Contact RCL Exceedance**  
**(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance**  
**Bold & Asteric \* = C-sat Exceedance**  
 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  
Smith Property BRRTS #03-41-506431**

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		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-9-1																			
NO RECOVERY																			
G-9-2	4.0	U	08/13/19	5.0	<b>41.3</b>	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	2.4E-08
G-9-3	8.0	U	08/13/19	1.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.134	NS			
G-9-4	15.0	S	08/13/19	1.7	NOT SAMPLED														
G-10-1	3.5	U	08/13/19	1.4	4.07	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0006	2.4E-08
G-10-2	8.0	U	08/13/19	1.9	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-3	12.0	S	08/13/19	2.8	NOT SAMPLED														
G-10-4	15.0	S	08/13/19	2.1	NOT SAMPLED														
<b>Groundwater RCL</b>					<b>27</b>	-	-	<b>0.0051</b>	<b>1.57</b>	<b>0.027</b>	<b>0.6582</b>	<b>1.1072</b>	<b>1.3787</b>		<b>3.96</b>	-			
<b>Non-Industrial Direct Contact RCL</b>					<b>400</b>	-	-	<b>1.6</b>	<b>8.02</b>	<b>63.8</b>	<b>5.52</b>	<b>818</b>	<b>219</b>	<b>182</b>	<b>260</b>	-	1.00E+00	1.00E-05	
<b>Industrial Direct Contact RCL</b>					<b>(800)</b>	-	-	<b>(7.07)</b>	<b>(35.4)</b>	<b>(282)</b>	<b>(24.1)</b>	<b>(818)</b>	<b>(219)</b>	<b>(182)</b>	<b>(260)</b>	-	1.00E+00	1.00E-05	
<b>Soil Saturation Concentration (C-sat)*</b>					-	-	-	<b>1820*</b>	<b>480*</b>	<b>8870*</b>	-	<b>818*</b>	<b>219*</b>	<b>182*</b>	<b>260*</b>	-			

**Bold = Groundwater RCL Exceedance**

**Bold & Underline = Non Industrial Direct Contact RCL Exceedance**

**(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance**

**Bold & Asteric \* = C-sat Exceedance**

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)

Great Lakes Security Cost Estimate  
(Armed Guard \$35/hour)

Drilling Project: Estimated on-site time is 16 hours (x \$35/hour) = \$560

Round 1 GW Sampling: Estimated on-site time is 6 hours (x \$35/hour) = \$210

Round 2 GW Sampling: Estimated on-site time is 6 hours (x \$35/hour) = \$210

**Total = \$980**



# Usual and Customary Standardized Invoice #26

## July 2019 - December 2019



RR-111a

PECFA #: 53206-3021-02  
 BRRTS #: 03-41-506431  
 Site Name: Smith Property  
 Site Address: 1102 W. Atkinson Avenue,  
Milwaukee, WI

Vendor Name: \_\_\_\_\_  
 Invoice #: \_\_\_\_\_  
 Invoice Date: \_\_\_\_\_  
 Check #: \_\_\_\_\_

U&C Total \$ 26,597.54  
 Variance to U&C Total \$ 980.00  
 Grand Total \$ 27,577.54

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX	
1	GW Sampling		GS05	Sample Collection	Well	\$ 74.62	15	\$ 1,119.30	
1	GW Sampling		GS10	Incremental Sample Collection (natural attenuation)	Well	\$ 49.10	5	\$ 245.50	
1	GW Sampling		GS15	Incremental Sample Collection (cadmium & lead)	Well	\$ 27.04	15	\$ 405.60	
1	GW Sampling		GS25	Primary Mob/Demob	Site	\$ 690.92	3	\$ 2,072.76	
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	\$ 141.24	1	\$ 141.24	
4	Waste Disposal	Commodity	WD10	GW Sample and/or Purge	Drum	\$ 43.37	1	\$ 43.37	
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	\$ 111.39	8	\$ 891.12	
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	\$ 316.47	1	\$ 316.47	
5	Closure Request		CR15	Continuing Obligation Packet Submittal (For Source Property	Packet	\$ 522.58	1	\$ 522.58	
5	Closure Request		CR20	Continuing Obligation Packet Submittal (For off-site Propertie	Per Additional Property	\$ 229.39	2	\$ 458.78	
5	Closure Request		CR25	Closure Request Following SIR	Submittal	\$ 1,287.50	1	\$ 1,287.50	
5	Closure Request		CR30	PE review and certification of closure packet	Site	\$ 1,129.60	1	\$ 1,129.60	
8	Well Abandonment	Consultant	WAB05	Coordination	Site	\$ 162.86	1	\$ 162.86	
8	Well Abandonment	Consultant	WAB10	Water column < 30 ft	Ft	\$ 2.60	65	\$ 169.00	
8	Well Abandonment	Consultant	WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	\$ 11.14	3	\$ 33.42	
8	Well Abandonment	Consultant	WAB25	Portland Cement (94lb bag)	Bag	\$ 8.44	3	\$ 25.32	
8	Well Abandonment	Consultant	WAB30	Primary Mob/Demob	Site	\$ 398.48	1	\$ 398.48	
10	Initial Site Survey	Consultant	IS05	Coordination of Initial Site Survey (features + well elevations)	Survey	\$ 120.70	1	\$ 120.70	
10	Initial Site Survey	Commodity	IS15	Initial Survey	Survey	\$ 1,206.85	1	\$ 1,206.85	
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs	Ft	\$ 5.56	70	\$ 389.20	
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR20	Primary Mob/Demob	Site	\$ 652.34	1	\$ 652.34	
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs	Ft	\$ 17.20	70	\$ 1,204.00	
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	\$ 4.01	65	\$ 260.65	
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	\$ 17.20	65	\$ 1,118.00	
14	Monitoring Well Installation	Commodity	MWI20	Well Development	Well	\$ 152.06	5	\$ 760.30	
15	Misc. Drilling Activities & Supplies		MDT05	Drill Rig Mob/Demob	Mob/Demob	\$ 1,059.72	1	\$ 1,059.72	
15	Misc. Drilling Activities & Supplies		MDT10	Well Cover/flushmount	Each	\$ 208.73	5	\$ 1,043.65	
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel	Each	\$ 56.78	9	\$ 511.02	
15	Misc. Drilling Activities & Supplies		MDT25	Commodity Service Provider Per Diem (drilling and direct push)	Person	\$ 209.38	2	\$ 418.76	
15	Misc. Drilling Activities & Supplies		MDT40	Concrete Penetration	Each	\$ 75.06	3	\$ 225.18	
15	Misc. Drilling Activities & Supplies		MDT45	Padlocks	Each	\$ 8.22	5	\$ 41.10	
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	\$ 253.50	1	\$ 253.50	
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	\$ 5,114.31	1	\$ 5,114.31	
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	\$ 125.09	1	\$ 125.09	
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule			\$ 1,947.40	
35	Cap Maintenance Plan		CMP05	Cap Maintenance Plan	Plan	\$ 329.64	1	\$ 329.64	
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 393.23	1	\$ 393.23	
Variance	Great Lakes Security - Armed Guard for all field events estimate at 28 hours @ \$35/hour.								\$ 980.00

# Usual and Customary Standardized Invoice #26

## July 2019 - December 2019 (Interim)



RR-111a

TOTAL LAB CHARGES \$ 1,947.40 TASK 33 77 \$ 1,947.40 TASK 24 0 \$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	\$ 46.29		\$ -			
AIR	A2	BETX	SAMPLE	\$ 50.94		\$ -			
AIR	A3	GRO	SAMPLE	\$ 47.48		\$ -			
AIR	A4	VOC's	SAMPLE	\$ 74.09		\$ -			
WATER	W1	GRO/PVOC	SAMPLE	\$ 30.07		\$ -			
WATER	W2	PVOC	SAMPLE	\$ 27.80		\$ -			
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$ 45.10		\$ -			
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 31.26	12	\$ 375.12			
WATER	W5	VOC	SAMPLE	\$ 74.09	6	\$ 444.54			
WATER	W6	PAH	SAMPLE	\$ 75.17		\$ -			
WATER	W7	Lead	SAMPLE	\$ 12.76	15	\$ 191.40			
WATER	W8	Cadmium	SAMPLE	\$ 13.96		\$ -			
WATER	W9	Hardness	SAMPLE	\$ 12.76		\$ -			
WATER	W10	BOD, Total	SAMPLE	\$ 24.34		\$ -			
WATER	W11	Nitrate	SAMPLE	\$ 11.58	5	\$ 57.90			
WATER	W12	Total Kjeldahl	SAMPLE	\$ 20.88		\$ -			
WATER	W13	Ammonia	SAMPLE	\$ 17.42		\$ -			
WATER	W14	Sulfate	SAMPLE	\$ 10.50	5	\$ 52.50			
WATER	W15	Iron	SAMPLE	\$ 10.50	5	\$ 52.50			
WATER	W16	Manganese	SAMPLE	\$ 10.50	5	\$ 52.50			
WATER	W17	Alkalinity	SAMPLE	\$ 10.50		\$ -			
WATER	W18	methane	SAMPLE	\$ 47.48		\$ -			
WATER	W19	Phosphorous	SAMPLE	\$ 18.60		\$ -			
WATER	W20	VOC Method 524.2	SAMPLE	\$ 181.59		\$ -			
WATER	W21	EDB Method 504	SAMPLE	\$ 98.31		\$ -			
SOILS	S1	GRO	SAMPLE	\$ 25.52	2	\$ 51.04	\$ 25.52		\$ -
SOILS	S2	DRO	SAMPLE	\$ 31.26		\$ -	\$ 31.26		\$ -
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.98		\$ -	\$ 28.98		\$ -
SOILS	S4	PVOC	SAMPLE	\$ 26.60		\$ -	\$ 26.60		\$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 50.94		\$ -	\$ 50.94		\$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 37.10	10	\$ 371.00	\$ 37.10		\$ -
SOILS	S7	VOC	SAMPLE	\$ 74.09		\$ -	\$ 74.09		\$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 52.13		\$ -	\$ 52.13		\$ -
SOILS	S9	PAH	SAMPLE	\$ 75.17		\$ -	\$ 75.17		\$ -
SOILS	S10	Lead	SAMPLE	\$ 12.76	10	\$ 127.60	\$ 12.76		\$ -
SOILS	S11	Cadmium	SAMPLE	\$ 15.04		\$ -			\$ -
SOILS	S12	Free Liquid	SAMPLE	\$ 11.58		\$ -			\$ -
SOILS	S13	Flash Point	SAMPLE	\$ 26.60		\$ -			\$ -
SOILS	S14	Grain Size - dry	SAMPLE	\$ 44.02		\$ -			\$ -
SOILS	S15	Grain Size - wet	SAMPLE	\$ 59.05		\$ -			\$ -
SOILS	S16	Bulk Density	SAMPLE	\$ 13.96		\$ -			\$ -
SOILS	S17	Permeability	SAMPLE	\$ 42.83		\$ -			\$ -
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$ 20.88		\$ -			\$ -
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$ 17.42		\$ -			\$ -
SOILS	S20	% Organic Matter	SAMPLE	\$ 30.07		\$ -			\$ -
SOILS	S21	TOC as NPOC	SAMPLE	\$ 59.05		\$ -			\$ -
SOILS	S22	Soil Moisture Content	SAMPLE	\$ 7.03		\$ -			\$ -
SOILS	S23	Air Filled Porosity	SAMPLE	\$ 26.60		\$ -			\$ -
SOILS	S24	% Total Solids	SAMPLE	\$ 7.03		\$ -			\$ -
SOILS	S25	Field Capacity	SAMPLE	\$ 28.98		\$ -			\$ -
SOILS	S26	TCLP Lead	SAMPLE	\$ 85.65	1	\$ 85.65			\$ -
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$ 27.80		\$ -			\$ -
SOILS	S28	TCLP Cadmium	SAMPLE	\$ 85.65		\$ -			\$ -
SOILS	S29	TCLP Benzene	SAMPLE	\$ 85.65	1	\$ 85.65			\$ -
		Viscosity + Density							
LNAPL	LFPS01	Interfacial tension I (LNAPL/water [dyne/cm])	SAMPLE	\$ 578.17		\$ -			
		Interfacial tension II (LNAPL/air [dyne/cm])							
		Interfacial tension III (water/air) [dyne/cm]							
<b>TASK 33 TOTAL</b>						<b>\$ 1,947.40</b>			

MAX COST	SAMPLES	TOTAL	
\$ 25.52		\$ -	
\$ 31.26		\$ -	
\$ 28.98		\$ -	
\$ 26.60		\$ -	
\$ 50.94		\$ -	
\$ 37.10		\$ -	
\$ 74.09		\$ -	
\$ 52.13		\$ -	
\$ 75.17		\$ -	
\$ 12.76		\$ -	
<b>TASK 24 TOTAL</b>			<b>\$ -</b>