

General Engineering Company
P.O. Box 340
916 Silver Lake Drive
Portage, WI 53901



608-742-2169 (Office)
608-742-2592 (Fax)
gec@generalengineering.net
www.generalengineering.net

Engineers • Consultants • Inspectors

April 15, 2016

Mr. Will Meyers
Wisconsin Department of Natural Resources
311 Fish Hatchery Road
Fitchburg, Wisconsin 53959



Re: Remedial Excavation Variance Request
Ward's Corner Garage
Hillpoint, Wisconsin 53937
BRRTS No.: 03-57-001693
PECFA No. 53937-9717-09

Dear Mr. Meyers,

In accordance with our phone conversation on February 17, 2016, General Engineering Company (GEC) is submitting this variance request to perform remedial excavation activities at the above-mentioned site.

The Wisconsin Department of Natural Resources (WDNR) was notified of contamination from a former LUST system on the property on October 5, 1992. The project remained idle for several years and was recently moved forward by the Sauk County Highway Department. A Work Plan was subsequently submitted to the WDNR by GEC, dated January 6, 2016. A site location map is shown on Figure 1. Five soil probes were advanced to depths of 16 to 27 feet utilizing a truck-mounted geoprobng unit. A site plan is shown on Figure 2. Soil samples collected from GP-1 indicated the presence of highly affected soils near the former dispenser island. A table of the soil analytical results is included on Table A.2. In addition, affected soils were observed near the location of the former tank system during prior test pits performed by GEC on the property. During the probing, the samples collected from beyond the former tank area to the north, east, and west and beyond the former dispenser to the south did not contain petroleum compounds to depths of at least 16 feet.

Due to the presence of known highly impacted soils near the former tank/dispenser area and the area being accessible to excavation, GEC is requesting a variance to perform the remedial excavation of affected soils within the former tank/dispenser area to the maximum depth possible, which appears to be around 15 to 17 feet below ground surface based on discussions with the planned excavator. The estimated limits of the excavation are shown on Figure 3. The planned scope of work includes the removal of an estimated 840 tons of affected soil, disposal of the soil at Mad Prairie Landfill in Madison, Wisconsin, collection of 14 soil samples from the sidewalls and bottom of the excavation for laboratory analysis, backfilling of the excavation, and submittal of a remedial documentation report. Soil samples will be submitted for laboratory analysis for the presence of petroleum volatile organic compounds (PVOC), naphthalene, and lead. The estimated cost to perform the planned work scope utilizing the most recent Usual and

Portage • Black River Falls • La Crosse



Consulting Engineering • Structural Engineering • Building Design • Environmental Services • Building Inspection • GIS Services
Grant Procurement & Administration • Land Surveying • Zoning Administration • Mechanical, Electrical, & Plumbing Services



Customary Cost Schedule is \$58,547.77. The most recent Usual and Customary Standardized Invoice (#19), utilized to estimate costs, is included as an attachment to this correspondence. Please do not hesitate to contact me with any questions.

Respectfully submitted,

GENERAL ENGINEERING COMPANY

A handwritten signature in blue ink that reads "Brian Youngwirth" with a circled "6" at the end.

Brian Youngwirth
Environmental Project Manager

A handwritten signature in blue ink that reads "Lynn M. Bradley".

Lynn M. Bradley
Environmental Project Manager

c: Mr. Steven Muchow-Sauk County Highway Commissioner



General Engineering Company

P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53901
 608-742-2169 (Office) • 608-742-2592 (Fax)
 www.generalengineering.net

This document contains confidential or proprietary information of General Engineering Company. Neither this document nor the information herein is to be reproduced, distributed, used or disclosed either in whole or in part except as specifically authorized by General Engineering Company.

**REGIONAL SITE LOCATION MAP
 REMEDIAL EXCAVATION VARIANCE REQUEST**

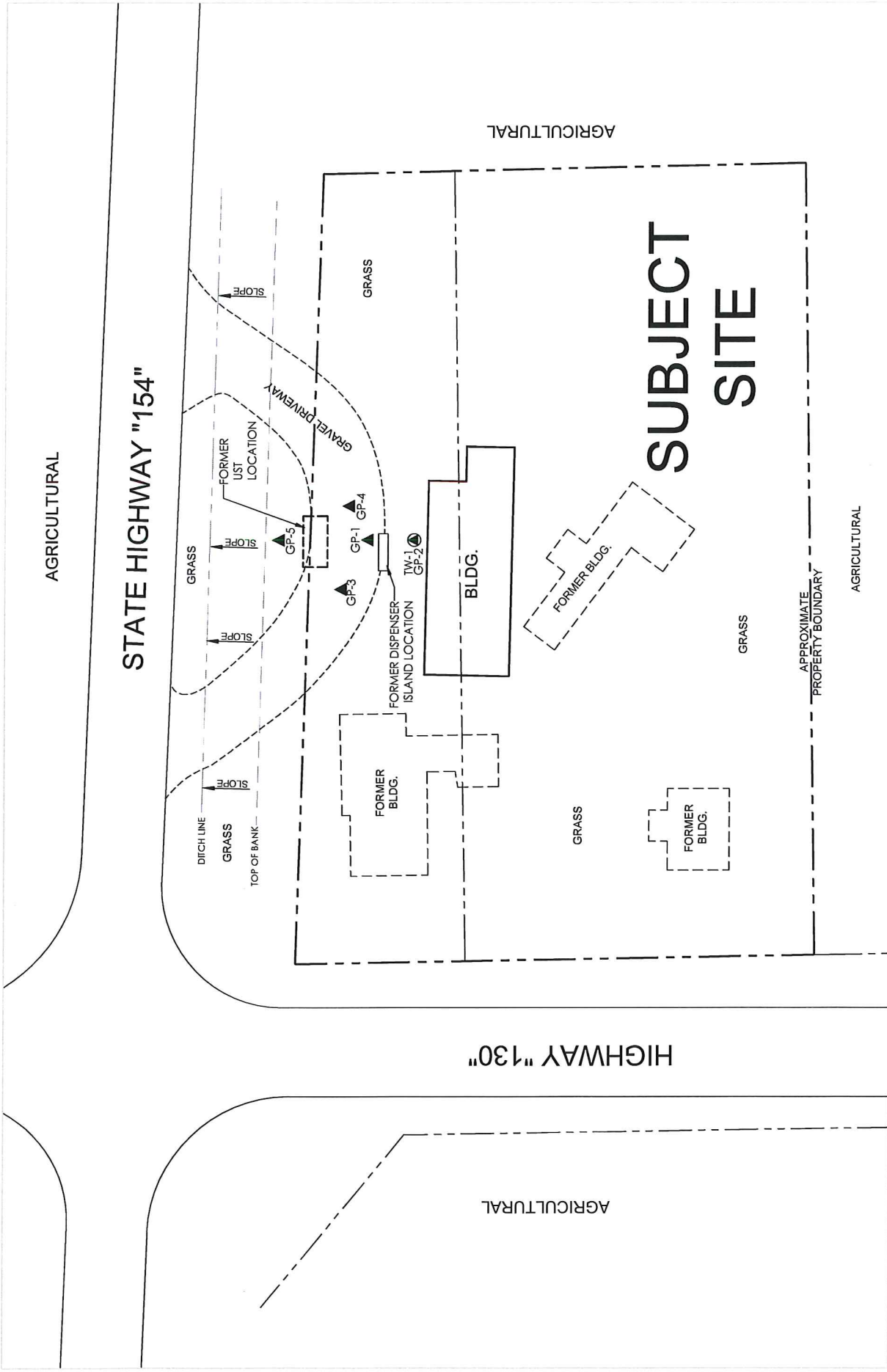
**Wards Corner Garage
 E3309STH "154"**

Town of Hillpoint
 Sauk County, WI



DRAWN BY	KP
REVIEWED BY	LMB
ISSUE DATE	Feb., 2016
GEC FILE NO.	2-1015-395
SHEET NO.	

FIGURE 1

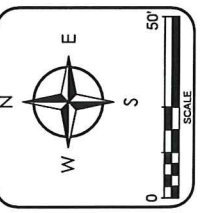


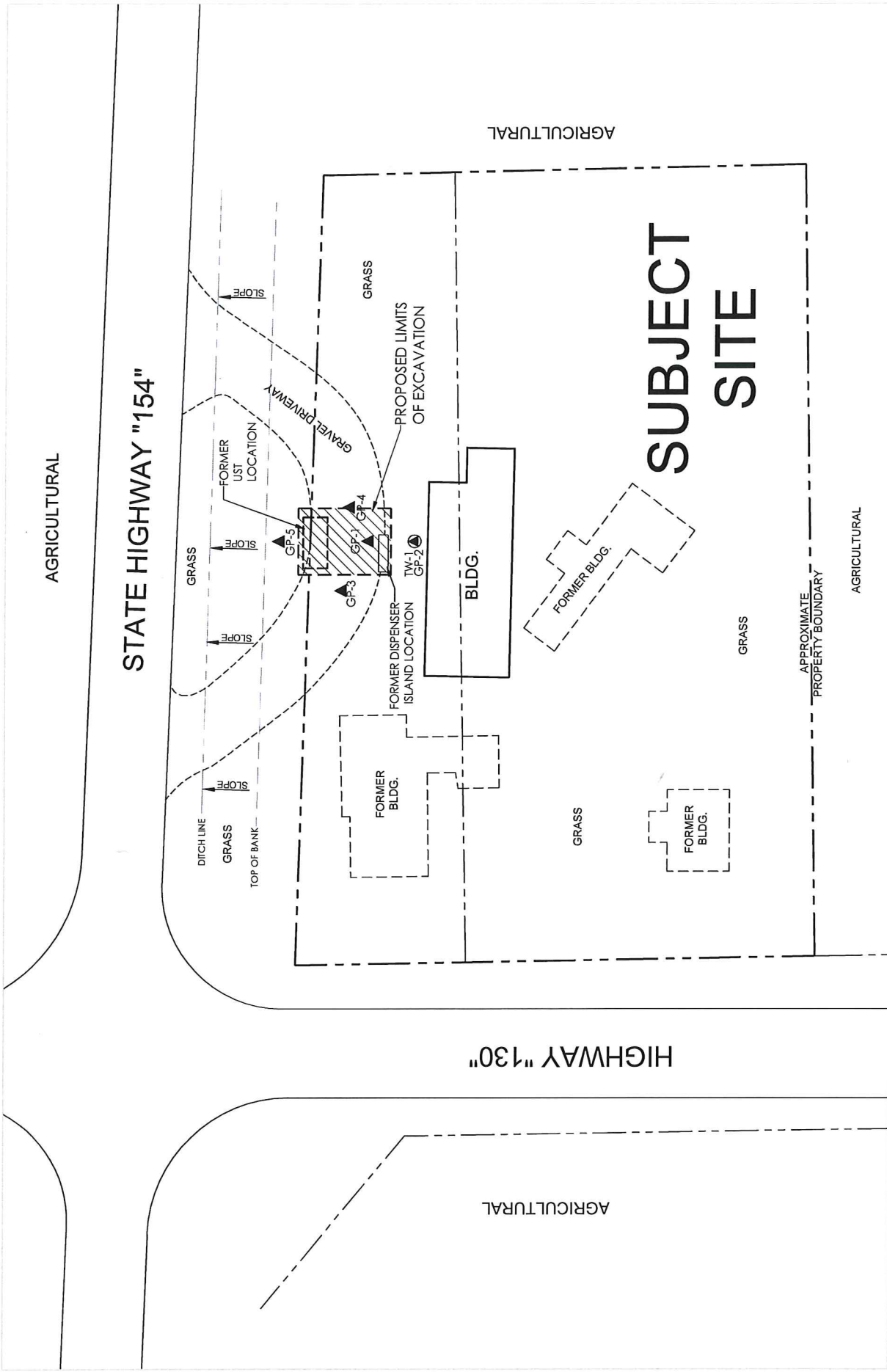
DRAWN BY: KP
 REVIEWED BY: LMB
 ISSUE DATE: Feb. 2016
 GEC FILE NO.: 2-1015-385
 SHEET NO.: **FIGURE 2**

SITE PLAN MAP
 Remediation Excavation Variance Request
 Wards Corner Garage
 E3309 STH. "154"
 Town of Hillpoint
 Sauk County, WI

General Engineering Company
 P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53901
 608-742-2169 (Office) • 608-742-2592 (Fax)
 www.generalengineering.net
This document contains confidential or proprietary information of General Engineering Company. Neither the document nor the information herein is to be reproduced, distributed, or disseminated in any form without the express written consent of General Engineering Company.

LEGEND
 - - - ESTIMATED PROPERTY LINE
 ● TEMPORARY MONITORING WELL LOCATION
 ▲ GEOPROBE LOCATION





GEC

DRAWN BY	KP
REVIEWED BY	LMB
ISSUE DATE	Feb, 2016
GEC FILE NO.	2-1015-395
SHEET NO.	

FIGURE 3

ESTIMATED LIMITS OF REMEDIAL EXCAVATION
 Remediation Excavation Variance Request
 Wards Corner Garage
 E3309 STH. "154"
 Town of Hillpoint
 Sauk County, WI

General Engineering Company
 P.O. Box 340 • 916 Silver Lake Dr. • Portage, WI 53901
 608-742-2168 (Office) • 608-742-2552 (Fax)
 www.generalengineering.net

This document contains confidential or proprietary information of General Engineering Company. Neither this document nor the information herein is to be distributed, copied, or otherwise used without the prior written consent as specifically authorized by General Engineering Company.

LEGEND

- ESTIMATED PROPERTY LINE
- TEMPORARY MONITORING WELL LOCATION
- ▲ GEOPROBE LOCATION

0 50' SCALE

Usual and Customary Standardized Invoice #19

January 2016 - June 2016



RR-058A

PECFA #: 53937-9717-09
 BRRT's #: 03-57-001693
 Site Name: Wards Corner Garage
 Site Address: E3309 State Highway 154

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

U&C Total \$ 58,547.77
 Variance to U&C Total \$ -
 Grand Total \$ 58,547.77

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	72.45	\$ -
1	GW Sampling		GS10		Incremental Sample Collection (natural attenuation)	Well	\$ 47.67	47.67	\$ -
1	GW Sampling		GS15		Incremental Sample Collection (cadmium & lead)	Well	\$ 26.25	26.25	\$ -
1	GW Sampling		GS20		Measure Water Levels (for wells not being sampled)	Well	\$ 14.70	14.70	\$ -
1	GW Sampling		GS25		Primary Mob/Demob	Site	\$ 628.11	628.11	\$ -
1	GW Sampling		GS30		Temporary Well Abandonment	Well	\$ 26.99	26.99	\$ -
2	O & M Reporting		OMR05		Annual GW Monitoring (Form 4400-194)	Report	\$ 823.73	823.73	\$ -
2	O & M Reporting		OMR10		Annual GW Monitoring (Form 4400-194) with LNAPL Removal per RR-628	Report	\$ 1,040.45	1,040.45	\$ -
3	LNAPL Assessment & Removal		LAR05		Removal Activity (Limited to 12 per site)	Well	\$ 47.67	47.67	\$ -
3	LNAPL Assessment & Removal		LAR06		LNAPL Sample Collection (1 per site)	Site	\$ 20.58	20.58	\$ -
3	LNAPL Assessment & Removal		LAR10		Primary Mob/Demob	Site	\$ 518.07	518.07	\$ -
4	Waste Disposal	Consultant	WD05		Consultant Coordination	Site	\$ 137.13	137.13	\$ -
4	Waste Disposal	Commodity	WD10		GW Sample and/or Purge	Drum	\$ 42.11	42.11	\$ -
4	Waste Disposal	Commodity	WD15		Drill Cuttings	Drum	\$ 108.15	108.15	\$ -
4	Waste Disposal	Commodity	WD17		Landfill Environmental Fee (provide documentation)				
4	Waste Disposal	Commodity	WD20		Free Product				
4	Waste Disposal	Commodity	WD25		Primary Mob/Demob	Drum	\$ 118.76	118.76	\$ -
5	Closure Request		CR05		Primary Closure Request	Submittal	\$ 2,700.00	2,700.00	\$ -
5	Closure Request		CR10		Closure Request with LNAPL Reporting (incremental to CR05)	Submittal	\$ 1,151.75	1,151.75	\$ -
5	Closure Request		CR15		GIS Packet Submittal (For Source Property only)	Packet	\$ 507.36	507.36	\$ -
5	Closure Request		CR20		GIS Packet Submittal (For off-site Properties only)	Per Additional Property	\$ 222.71	222.71	\$ -
6	Letter Report/Addendum		LRA05		Letter Report/Addendum	Letter	\$ 1,039.29	1,039.29	\$ 1,039.29
ACTUAL COST									

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
7	Regulatory Correspondence		RC05	Regulatory Correspondence	Letter/Status Update	\$	128.94	\$
8	Well Abandonment	Consultant	WAB05	Coordination	Site	\$	162.86	\$
8	Well Abandonment	Consultant	WAB10	Water column < 30 ft	Ft	\$	2.52	\$
8	Well Abandonment	Consultant	WAB15	Water column > 30 ft (requires pumping [s. NR 141.25 (2) (d)])	Ft	\$	8.82	\$
8	Well Abandonment	Consultant	WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	\$	10.82	\$
8	Well Abandonment	Consultant	WAB25	Portland Cement (94lb bag)	Bag	\$	8.19	\$
8	Well Abandonment	Consultant	WAB30	Primary Mob/Demob	Site	\$	362.25	\$
8	Well Abandonment	Commodity	WAB35	Well Abandonment Mob/Demob	Site	\$	412.55	\$
8	Well Abandonment	Commodity	WAB40	Well Abandonment (2 inch)	Ft	\$	5.57	\$
8	Well Abandonment	Commodity	WAB45	Well Abandonment (4 inch)	Ft	\$	6.51	\$
8	Well Abandonment	Commodity	WAB50	Well Abandonment (6 inch)	Ft	\$	7.98	\$
9	Investigation Workplan Preparation		IWP05	Investigation Workplan Preparation	Report	\$	1,451.63	\$
10	Initial Site Survey	Consultant	IS05	Coordination of Initial Site Survey (features + well elevations)	Survey	\$	117.18	\$
10	Initial Site Survey	Consultant	IS10	Subsequent Surveys	Well	\$	110.15	\$
10	Initial Site Survey	Commodity	IS15	Initial Survey	Survey	\$	1,171.70	\$
11	Potable Well Field Reconnaissance		PWFR05	Potable Well Field Reconnaissance	Site	\$	583.50	\$
12	Direct Push	Consultant	DP05	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$	5.36	\$
12	Direct Push	Consultant	DP10	> 24 ft bgs W/ Continuous Soil Sampling	Ft	\$	5.99	\$
12	Direct Push	Consultant	DP15	GW Profiling (No Soil Sampling)	Ft	\$	2.31	\$
12	Direct Push	Consultant	DP20	GW Sample Collection	Each	\$	36.10	\$
12	Direct Push	Consultant	DP25	Temporary Well Installation	Each	\$	49.90	\$
12	Direct Push	Consultant	DP30	Primary Mob/Demob	Site	\$	512.10	\$
12	Direct Push	Commodity	DP35	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$	6.93	\$
12	Direct Push	Commodity	DP40	> 24 ft bgs W/ Continuous Soil Sampling	Ft	\$	9.03	\$
12	Direct Push	Commodity	DP45	GW Profiling (no soil sampling)	Ft	\$	6.51	\$
12	Direct Push	Commodity	DP50	GW Sample Collection (cost for tubing)	Ft	\$	0.42	\$
12	Direct Push	Commodity	DP55	Expendable Drive Point	Each	\$	14.49	\$
12	Direct Push	Commodity	DP60	Borehole Abandonment	Ft	\$	1.26	\$
12	Direct Push	Commodity	DP65	Concrete Penetration	Each	\$	20.10	\$
12	Direct Push	Commodity	DP70	GW Sample Collection	Each	\$	39.27	\$
12	Direct Push	Commodity	DP75	Temporary Well Installation	Ft	\$	5.25	\$
12	Direct Push	Commodity	DP80	Mob/Demob (Includes decon)	Site	\$	526.05	\$

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE	CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs		Ft	\$ 5.40	\$	-
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR10	26 - 50 ft bgs		Ft	\$ 5.67	\$	-
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR15	51 - 75 ft bgs		Ft	\$ 7.30	\$	-
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR20	Primary Mob/Demob		Site	\$ 593.04	\$	-
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR25	Consultant Oversight		Ft	\$ 1.58	\$	-
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR30	Primary Mob/Demob		Site	\$ 505.16	\$	-
13.c	Drilling In Bedrock	Consultant	DR35	Consultant Oversight		Ft	\$ 6.20	\$	-
13.c	Drilling In Bedrock	Consultant	DR40	Primary Mob/Demob		Site	\$ 593.04	\$	-
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs		Ft	\$ 16.70	\$	-
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR50	26 - 50 ft bgs		Ft	\$ 18.38	\$	-
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR55	51 - 75 ft bgs		Ft	\$ 21.53	\$	-
13.e	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Commodity	DR60	Drilling in Unconsolidated Soils		Ft	\$ 11.97	\$	-
13.f	Drilling In Bedrock	Commodity	DR65	Drilling in Bedrock		Ft	\$ 33.18	\$	-
13.f	Drilling In Bedrock	Commodity	DR70	Bedrock Drilling Setup Charge		Each	\$ 162.02	\$	-
13.f	Drilling In Bedrock	Commodity	DR75	Air Compressor		Day	\$ 426.41	\$	-
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs		Ft	\$ 3.89	\$	-
14	Monitoring Well Installation	Consultant	MWI10	26 - 75 ft bgs		Ft	\$ 2.73	\$	-
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing		Ft	\$ 16.70	\$	-
14	Monitoring Well Installation	Commodity	MWI20	Well Development		Well	\$ 147.63	\$	-
14	Monitoring Well Installation	Commodity	MWI25	Mob/Demob (For development of grout or slurry sealed wells)		Site	\$ 548.63	\$	-
15	Misc. Drilling Activities & Supplies		MDT05	Drill Rig Mob/Demob		Mob/Demob	\$ 963.38	\$	-
15	Misc. Drilling Activities & Supplies		MDT10	Well Cover/flushmount		Each	\$ 202.65	\$	-
15	Misc. Drilling Activities & Supplies		MDT15	Stickup Well Cover		Each	\$ 163.91	\$	-
15	Misc. Drilling Activities & Supplies		MDT20	Bumper Guard Posts		Each	\$ 69.30	\$	-
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel		Each	\$ 55.13	\$	-
15	Misc. Drilling Activities & Supplies		MDT25	Commodity Service Provider Per Diem (drilling and direct push)		Person	\$ 203.28	\$	-

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
15	Misc. Drilling Activities & Supplies		MDT30	Well Repair	Well	\$ 84.42	84.42	\$ -
15	Misc. Drilling Activities & Supplies		MDT35	Borehole Abandonment	Foot	\$ 5.46	5.46	\$ -
15	Misc. Drilling Activities & Supplies		MDT40	Concrete Penetration	Each	\$ 72.87	72.87	\$ -
15	Misc. Drilling Activities & Supplies		MDT41	Private Utility Locate	Each	\$ 117.18	117.18	\$ -
15	Misc. Drilling Activities & Supplies		MDT45	Padlocks	Each	\$ 7.98	7.98	\$ -
16	Hand Auger Boring		HA05	Hand Augering	Boring	\$ 89.99	89.99	\$ -
16	Hand Auger Boring		HA10	Primary Mob/Demob	Site	\$ 555.56	555.56	\$ -
17	Surface Soil/Sediment/Water Sampling		SSWS05	Sampling	Sample Location	\$ 21.53	21.53	\$ -
17	Surface Soil/Sediment/Water Sampling		SSWS10	Primary Mob/Demob	Site	\$ 452.45	452.45	\$ -
18	Vapor Screening		VS05	Vapor Screening	Site	\$ 212.42	212.42	\$ -
19	Hydraulic Conductivity Testing		HCT05	Hydraulic Conductivity Testing	Well	\$ 58.59	58.59	\$ -
19	Hydraulic Conductivity Testing		HCT10	Primary Mob/Demob	Site	\$ 652.79	652.79	\$ -
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	\$ 246.12	246.12	\$ -
20	Soil Boring/Monitoring Well Permits		SBMWP10	Permit Fee (copy of permit & fee receipt required)	Permit Fee	\$ -	-	\$ -
21	Access Agreements		AA05	Access Agreements	Property	\$ 401.94	401.94	\$ -
22	Soil Investigation Report		SIR05	Soil Investigation Report	Report	\$ 3,330.92	3,330.92	\$ -
23	Soil And GW Investigation Report		SGIR05	Soil and GW Investigation Report	Report	\$ 4,965.35	4,965.35	\$ -
24	Limited Soil Excavation	Consultant	LSE05	Consultant Oversight for Limited Soil Excavation	Ton	\$ 4.94	840	\$ 4,149.60
24	Limited Soil Excavation	Consultant	LSE10	Primary Mob/Demob	Site	\$ 831.92	1	\$ 831.92
24	Limited Soil Excavation	Commodity	LSE13	Laboratory (see task 24 total on Lab Schedule)	Lab Schedule	\$ -	0	\$ -
24	Limited Soil Excavation	Commodity	LSE15	Limited Soil Excavation	Ton	\$ 60.00	840	\$ 50,400.00
24	Limited Soil Excavation	Commodity	LSE16	Landfill Environmental Fee (provide documentation)	ACTUAL COST	\$ 20.00	42	\$ 840.00
25	Remediation System Shut Down		SSD05	Permanent	Site	\$ 1,095.47	1,095.47	\$ -
25	Remediation System Shut Down		SSD10	Temporary	Site	\$ 329.28	329.28	\$ -
25	Remediation System Shut Down		SSD15	Primary Mob/Demob	Site	\$ 473.55	473.55	\$ -
26	Site Specific RCL Calculations For Direct Contact Risk		SSRCL05	SSRCL Calculations	Site	\$ 386.72	386.72	\$ -
27	Claim Submittal		CS05	Claim Submittal	Claim	\$ 585.90	585.90	\$ -
28	Standardized Invoice		BS05	Standardized Invoice	Invoice	\$ 17.64	17.64	\$ -
29	Occurrence Classification		OC05	Occurrence Classification	Letter/Status Update	\$ 125.37	125.37	\$ -
30	Meeting With Regulators		MR05	Meeting with Regulators	Meeting	\$ 349.23	349.23	\$ -
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	\$ 113.72	2	\$ 227.44
32	Deed Restriction Preparation		DRP05	Deed Restriction Preparation	Deed	\$ 178.19	178.19	\$ -

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule		28 \$	677.74
34	Consultant Incremental Mob/Demob		IMD05	Incremental Mob/Demob	Site	\$	287.18	\$ -
35	Cap Maintenance Plan		CMP05	Cap Maintenance Plan	Plan	\$	320.04	\$ -
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$	381.78	1 \$ 381.78
	Variance							
	Variance							

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
SOILS	S11	Cadmium	SAMPLE	\$ 14.60		\$ -			\$ -
SOILS	S12	Free Liquid	SAMPLE	\$ 11.24		\$ -			\$ -
SOILS	S13	Flash Point	SAMPLE	\$ 25.83		\$ -			\$ -
SOILS	S14	Grain Size - dry	SAMPLE	\$ 42.74		\$ -			\$ -
SOILS	S15	Grain Size - wet	SAMPLE	\$ 57.33		\$ -			\$ -
SOILS	S16	Bulk Density	SAMPLE	\$ 13.55		\$ -			\$ -
SOILS	S17	Permeability	SAMPLE	\$ 41.58		\$ -			\$ -
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			\$ -
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$ 16.91		\$ -			\$ -
SOILS	S20	% Organic Matter	SAMPLE	\$ 29.19		\$ -			\$ -
SOILS	S21	TOC as NPOC	SAMPLE	\$ 57.33		\$ -			\$ -
SOILS	S22	Soil Moisture Content	SAMPLE	\$ 6.83		\$ -			\$ -
SOILS	S23	Air Filled Porosity	SAMPLE	\$ 25.83		\$ -			\$ -
SOILS	S24	% Total Solids	SAMPLE	\$ 6.83		\$ -			\$ -
SOILS	S25	Field Capacity	SAMPLE	\$ 28.14		\$ -			\$ -
SOILS	S26	TCLP Lead	SAMPLE	\$ 83.16		\$ -			\$ -
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$ 26.99		\$ -			\$ -
SOILS	S28	TCLP Cadmium	SAMPLE	\$ 83.16		\$ -			\$ -
SOILS	S29	TCLP Benzene	SAMPLE	\$ 83.16		\$ -			\$ -
LNAPL	LFPS01	Viscosity + Density	SAMPLE	\$ 561.33		\$ -			\$ -
		Interfacial tension I (LNAPL/water [dyne/cm])							
		Interfacial tension II (LNAPL/air [dyne/cm])							
		Interfacial tension III (water/air [dyne/cm])							
									TASK 24 TOTAL \$ -
									TASK 33 TOTAL \$ 677.74