



August 8, 2019

Mr. William Bergum  
MDEQ Petroleum Tank Cleanup Section  
P.O. Box 200901  
Helena, MT 59620-0901

RE: Standardized Abbreviated Generic Applications Corrective Action Plan (AC-07)  
Petroleum Release – Co-Op Supply Center, 10 North Main, Valier, Pondera County, MT  
Facility ID 37-10231, Release #4383; Work Plan 33877

Dear Mr. Bergum,

Big Sky Civil & Environmental, Inc. (BSCE) has prepared this Corrective Action Work Plan for cleanup activities at the subject petroleum release site. In accordance with the Montana DEQ request letter dated June 5, 2019, BSCE proposes to coordinate and oversee remedial activities at the Co-Op Supply Center site as defined herein.

#### **Task 1 – Excavation and Disposal of Contaminated Material**

- Prior to initiating fieldwork, BSCE will utilize Montana 811 to complete utility locates. Additionally, in the bid request the following was included: “The bid should include the following scope of work . . . location and protection of all underground utilities throughout remedial activities.”
- Site work will be coordinated with the property owners, the staff at the Co-Op Supply Center, and the excavation contractor. Gravel surfacing and clean overburden will be removed in order to gain access to petroleum contaminated soils. As discussed in the Release Closure Plan, the volume of contaminated soils is estimated to be 2,500 cubic yards. Most of the contaminated soils are anticipated to be located between 2 and 14 feet below ground surface (bgs); meaning the top 2 feet of clean overburden (about 1,000 cubic yards) will be salvaged from the excavation and reused as backfill material. The excavation contractor will select an appropriate staging location for clean overburden.
- Petroleum impacted soils will be removed from the affected areas. The vertical and horizontal excavation limits (and the distinction between clean overburden/contaminated soils) will be field-determined by screening soils for organic vapors with BSCE’s Photo-Ionization Detector (PID). Soils exhibiting a PID reading above 100 ppm will be considered contaminated and will be hauled offsite for proper treatment and disposal. The horizontal limits of excavation could also be determined by physical barriers (property boundaries, utility corridors) if present. Public R/W (i.e. Highway 358) will not be disturbed by remedial activities without proper permits. Contaminated soils will be properly disposed of and treated at Northern Montana Joint Refuse Landfill (NMJR). Analytical results (RCRA Metals, VPH and EPH Screen with fractionation) for previous soil samples are available from the Remedial Investigation, which will be used by Sullivan Borthers Construction and NMJR for acceptance of contaminated soils.
- If groundwater is encountered during excavation, dewatering activities will not occur. It is not practicable to pump, treat, and discharge water. Shallow groundwater was noted in the area, and based on discussion with Sullivan Brothers Construction (who have experience with excavation in the vicinity), groundwater is not expected to be overly restrictive to a contaminated soil excavation at the

subject facility. If substantial groundwater is encountered and soils are too saturated to be accepted by the landfill, the excavation contractor said this can likely be addressed by allowing the soil to dry for a period of time – costs for additional time/soil handling will be addressed via the Form 8 process if necessary. The excavation will remain open for as long as practicable to allow for natural volatilization of petroleum contamination. Compaction and backfill will comply with Montana Public Works Standard Specification (MPWSS) - 6th Edition, section 02221, page 12 of 17: Type A (95% of standard proctor), but with the following exception - maximum lifts of 10" uncompacted fill. Similarly, imported backfill material will meet the MPWSS of 4" minus in Table of Gradations (Part 2.4) MPWSS - 6th Edition, section 02234, pg 3 of 6. Compaction and backfill results will be tested by a certified nuclear density technician using proctors and a Troxler nuclear density gauge. Field personnel will measure limits of the excavation to be included on figures and maps for future reference.

### **Task 1A – Monitoring Well Abandonment**

- Monitoring wells MW-2N and MW-1 will be abandoned by MSCA according to DNRC regulations, see attached bid.

### **Task 2 – Confirmation Soil Sampling**

- After excavation, select soil samples will be collected from the base and sidewalls of the excavation and sample locations and depths will be recorded, along with all PID readings and any field notes. At a minimum confirmation soil samples will be collected from every 625 SF of excavation (base), and at appropriate locations along the sidewall of the excavation (depending on levels of contamination); a minimum of 1 sample per sidewall above two feet in height will be collected. Soil samples will be analyzed for volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbon screen (EPH); EPH fractionation will occur if the screen exceeds 200 parts per million (ppm). Also, soil samples will be analyzed for lead scavengers: 1,2-DCA and EDB.

### **Task 3 – Monitoring Well Installation**

- It appears MW-2N, and possibly MW-1, could be damaged during remedial activities. If these wells are damaged, two (2) replacement monitoring wells will be installed upon completion of remedial activities to monitor the site's progression toward closure. Similarly, one additional monitoring well will be installed based on field findings for a total of three (3) wells. The monitoring wells will be drilled using an 8" hollow-stem auger, the well casing will be 2" PVC and screened in a similar manner to the previous wells. If wells are placed in backfilled material, soil samples will not be collected for analysis during drilling. Conversely, if monitoring wells are placed in native material, soil samples will be collected and analyzed for VPH and EPH Screen analyses; with fractionation if the EPH screen exceeds 200 ppm. Additionally, soil samples will also be analyzed for lead scavengers: 1,2-DCA and EDB; however, if confirmation soil samples from the excavation are below MDEQ's RBSLs for lead scavengers, these analyses will not be included for samples from monitoring well installation.
- All site wells will be surveyed using survey-grade GPS equipment.
- During well installation, soil lithologies will be logged according to USCS.
- After monitoring wells are installed, wells will be developed. Well development will include purging of the monitoring well until visibly non-turbid water is achieved.

- Monitoring well installation bids were obtained under the assumption that soils from auger cuttings will be clean and can be spread onsite. If soils from boreholes appear contaminated, they will be disposed of off-site and a Form-8 will be submitted for additional PTRCB funding, as necessary.

#### **Task 4 – Reporting**

- After completion of the contaminated soil excavation and monitoring well installation, one (1) Standardized Abbreviated Generic Applications report (AR-07) will be prepared and submitted to Montana DEQ. At a minimum the report will include the following: scaled map(s) showing the location of sampling points, location of downgradient receptors, volume of contaminated soils that were removed and disposed of, excavation limits, borings/wells installed at the facility; tabular presentation of soil data; a discussion section identifying results of the completed remedial activities, conclusions, and recommendations. Finally, the report will include data validation summary form (DVSF) for all analytical data, an updated release closure plan (RCP), and a recommendation of additional work required to resolve the release.
- The AR-07 Report will contain all sections presented in the AR-04 and AR-03 report formats. Standardized DEQ CAP and report formats will be used for all documents.
- Reports and supporting documents will be submitted as electronic copies in accordance with the “Electronic Submittals: File Transfer Service.”

All sampling will be completed in strict accordance with BSCE’s standard QA/QC procedures. The following procedures will be used during sample collection to provide quality assurance and quality control (QA/QC), to minimize loss of volatiles, and to maintain the suitability of samples for analysis. Sample collection and analytical procedures were consistent with SW-846: *Test Methods for Evaluating Solid Waste*, November 1986, and updates published by the U.S. EPA. QA/QC methods used are defined below:

- All sample containers/preservatives will be supplied by a state-certified laboratory. Analyses will be performed by a state-certified laboratory.
- All samples will be handled in a manner which minimizes the loss of organic compounds to volatilization and biodegradation.
- All samples for analyses will be placed in a cooler on ice (at a temperature of 4° C) immediately following collection.
- Chain-of-custody procedures will be utilized during sampling and delivery.
- Documentation of the sampling and QA/QC procedures including notes will be available for DEQ inspection. These notes will document the procedures for sampling and all other routine activities, along with field notes describing the sequence of activities that took place during the corrective action cleanup and the following monitoring well construction and sampling.

Attached is a cost estimate for completing the abovementioned corrective action fieldwork, analytical testing and report writing. BSCE has obtained bids from five (5) subcontractors for excavation work, and Sullivan Brothers Construction submitted the most competitive and comprehensive bid; note – Joe Russell Trucking submitted a lower bid, but it did not include disposal costs and is therefore considered nonresponsive and incomplete and was not further considered. BSCE did reach out to Joe Russell on multiple occasions but did not receive a response back regarding the incomplete bid. See bids attached. BSCE also obtained bids from three (3) monitoring well contractors, and Boland’s bid appears most competitive and was therefore included in the cost estimate. See bids attached.

Mr. William Bergum  
August 8, 2019  
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William, thank you for your continued cooperation and assistance. Please feel free to contact us with any questions or concerns you may have regarding this Corrective Action Plan.

**Big Sky Civil & Environmental, Inc.**



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Joseph N. Murphy, P.E.



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Paxton Ellis, E.I.

encl.     Cost estimate  
           Estimated Excavation Limits  
           Excavation Bids – Sullivan Brothers Construction, Joe Russell Trucking, Shunaker Trucking, M&D Construction, and MRTE  
           Well Installation Bids – Boland Drilling, Haztech Drilling, and O’Keefe Drilling  
           Well Abandonment Bid – MSCA  
           BSCE Soil Sampling SOP

cc:        Mr. Greg Taylor  
           Co-Op Supply Center  
           P.O. Box 810  
           Shelby MT 59474

**COST ESTIMATE**

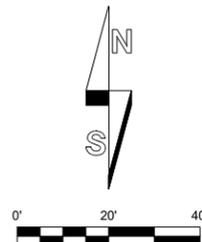
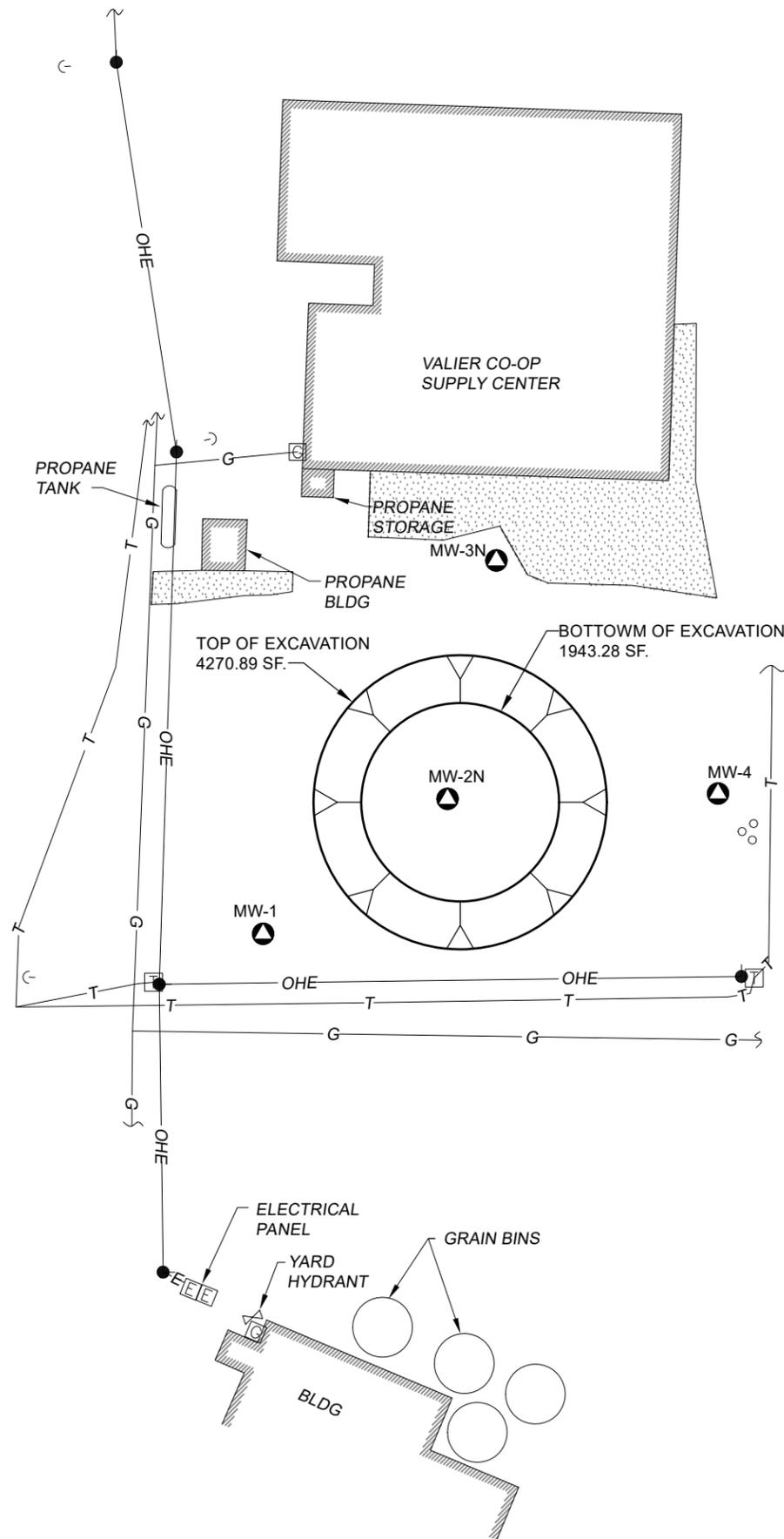
<b>Task</b>	<b>Cost</b>	<b>Unit</b>	<b>Number of Units</b>	<b>Total Cost</b>
<b>Senior Engineer<sup>(1)</sup></b>	\$ 145.00	/hr	38	\$ 5,510.00
<b>Project Engineer<sup>(1)</sup></b>	\$ 131.50	/hr	107	\$ 14,070.50
<b><u>Mobilization/Demobilization</u></b>				
Mob/Demob (25 RT Excavation, 2 RT MW Install, 2 RT Survey, 1 Well Abd) (180 mi/RT)	\$ 2.50	/mile	5,400	\$ 13,500.00
<b><u>Field Work</u></b>				
Staff Engineer <sup>(2)</sup>	\$ 112.00	/hr	230	\$ 25,760.00
Engineer Technician (Well Development)	\$ 101.00	/hr	8	\$ 808.00
Proctors	\$ 200.00	/proctor	3	\$ 600.00
Excavation @ 7% markup (see Sullivan Brothers bid)	\$196,500.00	@ 7% markup	1.07	\$ 210,255.00
Monitoring Well Install @ 7% markup (see Boland Drilling bid)	\$ 4,145.00	@ 7% markup	1.07	\$ 4,435.15
Well abandonment @ 7% markup (see MSCA)	\$ 306.00	@ 7%	1.07	\$ 327.42
Surveyor	\$ 135.00	/hr	12	\$ 1,620.00
Trimble w/ GPS	\$ 100.00	/hr	12	\$ 1,200.00
Nuclear Density Gauge	\$ 35.00	/day	20	\$ 700.00
PID Meter	\$ 80.00	/day	17	\$ 1,360.00
Per diem	\$ 23.00	/day	32	\$ 736.00
<b><u>Report Preparation &amp; Additional Project Management</u></b>				
CAP AC-07 <sup>(3)</sup>	-	/report	1	\$ 2,950.00
Generic Applications Report AR-07 <sup>(3)</sup>	-	/report	1	\$ 5,545.00
Data Validation	\$ 131.50	/report	10	\$ 1,315.00
Updated Release Closure Plan	\$ 131.50	/hr	9	\$ 1,183.50
<b>Estimated Project Expenses</b>				<b>\$ 291,875.57</b>
<b><u>Laboratory Analysis</u> [9 Soil (MW Install), 30 Conf. Soil]</b>				
Volatile Petroleum Hydrocarbons (VPH)	\$ 125.00	/sample	39	\$ 4,875.00
EPH Screen	\$ 80.00	/sample	39	\$ 3,120.00
EPH Fractionation <sup>(4)</sup> (assume 1/3 of samples)	\$ 190.00	/sample	13	\$ 2,470.00
EPA Method 8260B (1,2-dichloroethane)	\$ 110.00	/sample	39	\$ 4,290.00
EPA Method 8011 (ethylene dibromide (EDB))	\$ 85.00	/sample	39	\$ 3,315.00
PTRCB sampling fee	\$ 10.00	/sample	39	\$ 390.00
Other (gallon bags, DI water, copies, gloves, etc.)				\$ 200.00
<b>Estimate of Per Diem &amp; Lab</b>				<b>\$ 18,660.00</b>
<b>Estimated Total Project Cost</b>				<b>\$ 310,535.57</b>

(1) Gen proj mgmt (scheduling, planning, DEQ/RP coordination and correspondence, Health and Safety Plan, non-haz waste manifest, etc.) Budget is ~7% of total project cost, and is based on discussion with appropriate PTRCB staff.

(2) 215 hrs Excavation oversight (25-30 days estimated by contractor), 10 hrs MW Installation oversight. 5 hrs well abandonment. Budget includes time for compaction testing, and other construction observation.

(3) No PTRCB pre-approved max cost exists, cost based on actual/estimated time spent

(4) If EPH Screen results are higher than regulatory standards



**BIG SKY CIVIL & ENVIRONMENTAL, INC**

ENGINEERS - PLANNERS - DESIGNERS - LAND SURVEYORS - ENVIRONMENTAL SPECIALISTS

1324 13th Ave. SW  
 P.O. BOX 3625  
 GREAT FALLS, MT 59403  
 (406) 727-2185 OFFICE  
 (406) 727-3656 FAX  
 www.bigskyce.com

PROFESSIONAL SEAL

BY: CJM  
 DATE: 7/20/18

OWNER:

BEN TAYLOR, INC.

PROJECT NAME:

VALIER CO-OP

SHEET TITLE:

ESTIMATED EXCAVATION LIMITS

DRAWING INFORMATION:

OFFICE PROJECT NUMBER: 120  
 OWNER FILE NUMBER: XXXX  
 CADD FILE NAME: XXXX  
 ASSOCIATED PROJECTS: XXXX

FIGURE:

1



# PURCHASE ORDER

## SULLIVAN BROS. CONSTRUCTION

303 North Virginia  
Conrad, Montana 59425  
www.sullivanbroconstruction.com

DAN - 406 450 1358  
CHRIS - 406 289 0053  
SHOP - 406 278 7940

NO.	_____
DATE	7/23/2019
P.O.B.	_____
VIA	Paxton
TERMS	Chris

TO: BSCE  
Paxton Ellis

SHIP TO: Excavate Approx 1000 cu yards of Clean soil  
Excavate Approx 2500 cu yards of Dirty soil  
Transport & Dispose of @ MTRD Dump  
Reinstall Pit Run compacted and Top dress sight

PLEASE SHIP THE FOLLOWING: \_\_\_\_\_ DATE REQUIRED: \_\_\_\_\_

QTY	STOCK NUMBER	DESCRIPTION	PRICE	PER	AMOUNT
1	Mobe	Move Equipment			\$2500.00
2	Removal	Clean of Burden approx 1000 yds	\$10	yd	\$10,000.00
3	Removal	Remove Dirty dirt/Recompact Back 2500.00	\$49.60	yd	\$24,000.00
4	Removal	Transport & Disposal 2500 yds	\$24	yd	60,000.00
5					
6					
7					
8					
9		Approx Estimated Total			\$196,500

**IMPORTANT**  
OUR ORDER NUMBER MUST APPEAR  
ON INVOICES AND PACKAGES  
ACKNOWLEDGE IF UNABLE TO SHIP ON TIME.

ORDERED BY: \_\_\_\_\_



M&D Construction, Inc. 4415 18<sup>th</sup> Ave. North Great Falls MT 59405  
406.452.8825 phone 406.452.0144 fax mdconstructi@bresnan.net

June 28, 2019

BSCE, Inc  
1324 13<sup>th</sup> Ave. SW  
Great Falls, MT 59403  
Attn: Paxton Ellis

Subject: Co-Op Supply Center Remedial Excavation, Valier, MT

M&D Construction is pleased to provide a quote for the following scope of work:

SITework					
ITEM NO.	EST. QUANTITY	UNIT	NAME OF PAY ITEM	UNIT PRICE	AMOUNT
1	1	LS	MOBILIZE/DE-MOBILIZE TO SITE		\$ -
1	1	LS	STRIP AND STOCKPILE 1000 CY ONSITE		\$ -
1	1	LS	REMOVE AND DISPOSE OF 2500 CY BANK CONTAMINATED SOILS		\$ -
1	1	LS	IMPORT AND BACKFILL WITH 4" MINUS - 2500 CY		\$ -
1	1	LS	REPLACE STRIPPED AND STOCKPILED MATERIAL - 1000 CY		\$ -
				<b>TOTAL</b>	<b>\$ 202,551.00</b>

**NOTES:**

1. M&D anticipates that there will be sufficient areas onsite to stockpile stripped material.
2. Quality Control testing/inspections are to be provided by BSCE.
3. Material testing and manifests to be provided by BSCE.
4. All permits to be provided by BSCE.
5. Proposal does not include SWPP.
6. Proposal does not include any winter protection.
7. Proposal does not include any dewatering or saturated soil excavation/disposal.

Thank you for the opportunity to provide our services.

Should you have any questions or concerns, please feel free to call me.



M&D Construction, Inc. 4415 18<sup>th</sup> Ave. North Great Falls MT 59405  
406.452.8825 phone 406.452.0144 fax mdconstructl@bresnan.net

Best Regards,

A handwritten signature in blue ink that reads 'Josh Picking'. The signature is written in a cursive style with a long, sweeping underline that extends to the right.

Josh Picking

# Shumaker Trucking and Excavating Contractors, Inc.

P.O. Box 1279

Great Falls, MT 59403-1279

Ph: (406) 727-3537

FAX: (406) 727-9995

July 22, 2019

Big Sky Civil & Environmental  
Attn: Paxton Ellis  
P.O. Box 3625  
Great Falls, MT 59403

Re: 204 Montana St.  
Co-Op Supply Center  
Facility ID#37-10231 Release #4383 Work Plan #33877  
Petroleum Contaminated Soil Removal  
Valier, MT

Dear Paxton:

Per your request and our phone conversations, please consider the following quote for the above referenced work.

1. Conc. Removal - ( $\pm 1,500$ sf) x \$1.50/sf =	\$2,250.00
2. Remove/Replace Overburden - ( $\pm 1,000$ cy) x \$16.00/cy =	\$16,000.00
3. Excavation & disposal - ( $\pm 2,500$ cy) x \$38.06/cy =	\$95,150.00
3. Backfill - ( $\pm 2,500$ cy) x \$36.00/cy =	\$90,000.00
4. Mobilization/Demobilization -	<u>\$17,000.00</u>
Estimated Total	\$220,400.00

Price Excludes the following:  
Sheeting or shoring systems.  
Dewatering or water disposal.  
Utility repairs or relocations.  
SWPP Permit.  
Permits or fees.  
Engineering, staking and testing.  
Soil Testing.

General:

Measurement and payment by truck load measure.  
Price contingent upon mutually acceptable start date.  
Quote good until August 15, 2019, unless extended by mutual consent.

If you have any questions, or need any additional information, please don't hesitate to give me a call.

Sincerely,

Joe Aline,  
Estimator/Project Manager



**MRTE, INC**

P.O. Box 538

Black Eagle, MT 59414

(406) 761-5640

(406) 799-8200

June 28, 2019

TO: Big Sky Civil Engineering

ATTN: Paxton

RE: Co-Op supply center Valier Contaminated soil removal

The following bid is to strip and stockpile approximately 1,000 cy of soil onsite, removal and disposal of 2500 cy of contaminated soil and haul off site to NMJR landfill. Supply, place and compact with imported 4" minus pit run gravel. Bid includes all labor, equipment, mobilization and landfill costs.

Bid Total \$222,000.00

Strip and stockpile soil onsite and replace and compact topsoil when finished \$15.00 per cy

Removal and disposal of contaminated soil and supply and placement of gravel \$82.80 per cy

\_\_\_\_\_  
Joe Horner

\_\_\_\_\_  
Accepted by



Paxton Ellis <pellis@bigskyce.com>

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## Bid for removal of petroleum contaminated soils - Valier, MT

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Joe Russell <outlawjrt@gmail.com>  
To: Paxton Ellis <pellis@bigskyce.com>

Fri, Jun 28, 2019 at 2:46 PM

Joe Russell Trucking  
409 Sunset blvd  
Conrad, Mt 59425

Bid for removal of petroleum contaminate  
Valier Mt.  
\$73,600.00 for the described job  
Disposal costs of soils is not included in this price.  
If there are any questions or comments please don't hesitate to call.  
406-868-0158  
Joe Russell  
[Quoted text hidden]

# Petroleum Tank Release Compensation Board

## Soil Boring/Monitoring Well Installation Unit Cost Worksheet

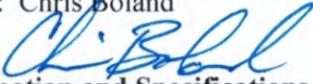
### Contractor Information

Company Name: Boland Drilling

Address: 4701 N Star Blvd

City, State, Zip: Great Falls, MT 59405

Cost Estimator: Chris Boland

Signature: 

Phone: 406-761-1063

6/27/2019

### Project Information and Specifications

Co-op Supply Center

204 Montan Street

Valier, MT 59486

Facility ID #

Release #

WP ID #

### Type of Drilling Equipment

Hollow-Stem Augers

Air Rotary

Direct Push

Other (please specify)

### Soil Boring

Number of Borings

Boring Diameter (inches)

Depth (per boring - ft)

Surface: Concrete Asphalt Barren

Soil Disposal: Onsite Stockpile  Drums

Abandonment: Bentonite Soil Cuttings

### Soil Sampling

Continuous Soil Sampling

Interval Soil Sampling (specify interval)

No Sampling

### Monitoring Well Specifications

Number of Wells

Surface: Concrete Asphalt Barren

Depth (per well)

Estimated Depth to Groundwater (ft)

Boring Diameter (inches)

Casing Diameter and type (inches)

Surface Completion:  Flush Mount  Aboveground

### Cost Estimate Explanation:

- Mobilization/Demobilization: Includes all costs and mileage to transport equipment, materials, and personnel to and from the site location. More than one mobilization event of either the drilling rig or support vehicle will require justification and pre-approval by the DEQ-PRS and Board staffs. This item should be estimated on a per mile unit rate
- Soil Boring Installation: Includes all costs (labor, equipment, and materials) to drill, collect soil samples and abandon soil borings, as well as decontaminate equipment. Drilling costs should be estimated using a per foot unit rate. Unit cost should include handling of contaminated soil by stockpiling or placing in drums. Assume level "C" personal protective equipment.
- Monitoring Well Installation: Includes all costs (labor, equipment, and materials) to drill, collect soil samples, and complete monitoring well to specifications and according to Montana Well Drillers Board rules, as well as decontaminate equipment. Drilling costs should be estimated using a per foot unit rate. Unit cost should include handling of contaminated soil by stockpiling or placing in drums. Assume level "C" personal protective equipment.
- Drilling Standby: Drilling standby should be estimated on an hourly basis. Prior approval and justification for accumulating standby time is needed prior to billing.
- Well Development: Includes all costs (labor, equipment, and materials) to develop monitoring wells. This task should be estimated using a per well unit rate.
- Monitoring Well Abandonment: Includes all costs (labor, equipment, and materials) to properly abandon a well location according to the Montana Well Drillers Board rules. Abandonment costs should be estimated using a per well unit rate.

## Soil Boring/Monitoring Well Installation Unit Cost Worksheet

TASK		UNIT COST	NUMBER OF UNITS	TOTAL COST
<b>Mobilization/Demobilization (1)</b>				
Mobilization/Demobilization: Drilling Rig	\$	2.50 /mile	200	\$ 500.00
Mobilization/Demobilization: Support Vehicle	\$	1.50 /mile	200	\$ 300.00
<b>Soil Boring Installation (2)</b>				
Drilling (0'-50' range per boring)	\$	34.00 /foot	45	\$ 1,530.00
Drilling (50'-100' range per boring)		/foot		\$ -
Other (please specify) _____				\$ -
<b>Monitoring Well Installation (3)</b>				
Drilling (0'-50' range per well)	\$	34.00 /foot	45	\$ 1,530.00
Drilling (50'-100' range per well)		/foot		\$ -
Other (please specify) _____				\$ -
<b>Drilling Standby (4)</b>				
-prior approval needed	\$	125.00 /hour		\$ -
<b>Well Development (5)</b>				
Well Development	\$	150.00 /hour		\$ -
<b>Monitoring Well Abandonment (6)</b>				
Abandonment	\$	350.00 /well		\$ -
<b>Lodging may only be paid at actual costs when documented by receipts.</b>				
<b>Per Diem</b>				
Lodging: number of individuals =	2	\$ 125.00 /person per day	0	\$ -
Food: number of individuals =	2	\$ 23.00 /person per day	0	\$ -
(Breakfast 5.00, Lunch 6.00, Dinner 12.00)				

**TOTAL PROJECT EXPENSE \$ 3,860.00**

D.O.T. Drums \$95.00 3 \$285.00

Additional Conditions/Comments/Costs:

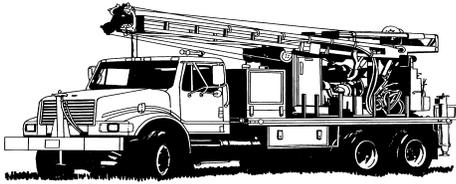
Drill 3 soil borings to 15 each' and construct 3 monitor wells at Co-op Supply Center 204 Montana St. Valier, MT 59486

If you require assistance, call 406-841-5090.

Submit completed form to:

Petroleum Tank Release Compensation Board PO Box 200902, Helena MT 59620-0902

# HAZTECH Drilling, Inc.



P.O. Box 30622  
 2910 Hannon Road, Suite #6  
 Billings, MT 59107  
 Phone: 406-896-1164 or 800-359-1502  
 Fax: 406-896-1462

## Proposal

TO: Big Sky Civil & Environmental, Inc.  
 ATTN: Paxton Ellis  
 P.O. Box 3625  
 Great Falls, MT 59403  
 Ph: 406-727-2185

DATE: 7/1/2019

PROJECT: 204 Montana St.  
 Valier, MT

**Description:**

3-15' wells with 12' of .010 screen and flush mount covers. Cuttings will be drummed.

TERMS: Net 30 days

	UNITS EST.	UNIT PRICE	AMOUNT EST.
*****	*****	*****	*****
Mob/ Demob, Per Mile	620	\$3.25	\$2,015.00
Support Truck, Per Day	3	\$150.00	\$450.00
Perdiem, Per Crew Day	3	\$46.00	\$138.00
Lodging, Per Night, Estimated	2	\$250.00	\$500.00
Auger Drilling, Per Ft	45	\$20.00	\$900.00
Well Installation, Per Ft	45	\$28.50	\$1,282.50
Flush Mount Covers, Each	3	\$100.00	\$300.00
Drums, Each, Estimated	4	\$90.00	\$360.00
Standby, Per Hr.	0	\$150.00	\$0.00
			*****
	ESTIMATED TOTAL:		\$5,945.50

**Notes:**

- 1) Client is responsible to clear location of utilities.
- 2) Client is responsible for disposal of drill cuttings.
- 3) Client will be invoiced only the amounts used.
- 4) We assume that site is accessible by truck mount drill rig.

Proposal By: Paul Bray

# O'KEEFE DRILLING

*Environmental*

P.O. Box 3810 - Butte, MT 59702  
Office: (406) 494-3310 Fax: (406) 494-3301  
Email: info@okeefedrilling.com

**Client:** Big Sky Civil & Environmental, In.  
PO Box 3625  
Great Falls, MT 59403  
**Attention:** Paxton Ellis, E.I.

**Date:** 27-Jun-19  
**Phone:** 406.727.2185  
**Cell:** 406.438.1136  
**Email:** [pellis@bigskyce.com](mailto:pellis@bigskyce.com)

**Project:** Co-Op Supply Center, Valier, MT

PROJECT SPECIFICATIONS:			
<b>Type of Rig:</b>	<u>Mobile B-61 Auger</u>	<b>Number of Wells:</b>	2
<b>Location:</b>	<u>Co-Op Supply Center, Valier, MT</u>	<b>Expected Footage:</b>	20
<b>Formation:</b>	<u>Silty Clay</u>	<b>Completion PVC Size:</b>	2"
<b>Sampling:</b>	<u>Yes</u>	<b>Screen Length:</b>	12
<b>Decontamination:</b>	<u>No</u>	<b>Screen Size:</b>	0.01
<b>Other Details:</b>	<u>Drum Soil Cuttings</u> <u>Flush Mount w/Concrete Surface</u>		

### Soil Boring/Monitor Well Installation

#### Unit Cost Worksheet

Task	Unit Cost	Number of Units	Total Cost
<b>Mobilization/Demobilization</b>			
Drill Rig:	\$ 2.75	Miles 470	\$ 1,292.50
Support Vehicle:	\$ 1.75	Miles 470	\$ 822.50
<b>Per Diem or Crew Daily Travel</b>			
Motel	2 \$ 90.00	Per Person Per Day 2	\$ 360.00
Food	2 \$ 40.00	Per Person Per Day 3	\$ 240.00
<b>Soil Boring Drilling</b>			
Drilling 0-50 ft range	\$ 30.00	Per Foot 40	\$ 1,200.00
<b>Monitor Well Installation</b>			
2" Sched 40 PVC	\$ 35.00	Per Foot 40	\$ 1,400.00
<b>Drilling Standby &amp; Safety Meeting</b>			
	\$ 115.00	Per Hour	\$ -
<b>Other:</b>			
Containerize Cuttings	\$ 175.00	Per Hour 1	\$ 175.00
DOT Drums	\$ 95.00	Each 4	\$ 380.00
Premix Cement	\$ 5.19	Each 2	\$ 10.38
<b>Total Project Expenses</b>			<b>\$ 5,880.38</b>

\*Mob/Demob could be split with another project if available.

\*\*Client is responsible to remove Drums from the work site.

\*\*\*Client is responsible for any line locates. Locate number can then be given to O'Keefe Drilling who then will request ticket default(s).

\*\*\*\*This bid is subject to change as warranted when the addition of prior unexpressed need for additional certifications, medical monitoring, sampling, containerization or other unforeseen change in the scope of work.



Paxton Ellis &lt;pellis@bigskyce.com&gt;

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**Monitor Well Abd bid - Valier**

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**Scott Brown** <msca\_scott@hotmail.com>

Wed, Aug 7, 2019 at 11:01 AM

To: Paxton Ellis &lt;pellis@bigskyce.com&gt;

Paxton, do you need this bid on State DEQ bid sheet format?

If not then here is what I have.

Travel 66 miles round trip @ 1.00 mile = \$66.00

Time 3 hours travel and work plus 1 hour updating GWIC @ 50.00 hour = \$200.00

Bentonite chips to fill wells, \$20.00/ well = \$40.00

Total is \$306.00

Thanks

Scott

Sent from Outlook

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**From:** Paxton Ellis <pellis@bigskyce.com>**Sent:** Wednesday, August 7, 2019 10:45 AM**To:** Scott Brown <msca\_scott@hotmail.com>**Subject:** Monitor Well Abd bid - Valier

[Quoted text hidden]

	<b>BSCE SOP Soils</b>	ENV-002
Soil Sampling	<b>Last Review/Update</b>	6/7/2016
Page # 1	<b>Approval</b>	

## Standard Operating Procedure

### **1. Purpose**

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The purpose of this document is to establish a uniform process for soil sampling.

### **2. Scope**

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This Standard Operating Procedure applies to the collection of soil samples. The following procedures apply to all SOPs and associated documents, revisions after this SOPs effective date.

### **3. Equipment/Materials**

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The following equipment/materials are required to perform all soil sampling activities:

- Rubber gloves
- Plastic baggies
- Field printout for specific job
- Photo-ionization Detector (PID)
- Shovel
- Hand-auger
- Water and soap for decontamination of equipment
- Appropriate sampling jars
- Jar labels
- Cooler
- Ice

### **4. Responsibilities**

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All individuals conducting soil sampling activities are responsible to regularly review this SOP and bring forward to management any recommendations for additions or revisions.

### **5. Procedure**

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The following procedures are to be conducted during any soil sampling:

- Obtain soil sample.
- Record observed soil types.
- Record any contamination observed (staining, odors, etc.).
- Collect soil sample into plastic baggie and allow vapors to volatilize.
- Obtain PID reading by poking a hole in baggie and putting PID probe inside, make sure no soil and/or water comes in contact with the PID probe.
- Record PID reading.
- Label the appropriate sampling jars with the correct information (sample name, date, time, location, etc.)

	<b>BIG SKY CIVIL &amp; ENVIRONMENTAL, INC</b>	<b>BSCE SOP Soils</b>	ENV-002
Soil Sampling	<b>Last Review/Update</b>		6/7/2016
Page # 2	<b>Approval</b>		

- Place soil sample in appropriate sampling jars and place sample in cooler with ice.
- Discard empty baggies and used rubber gloves.
- If soil sample was collected using shovel or hand-auger, decontaminate with soap and water.

## **6. *References***

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<https://deq.mt.gov/Portals/112/DEQAdmin/ENF/Documents/Reports/SoilSamplingGuidance.pdf>

## **7. *Approval/Review***

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\_\_\_\_\_  
Reviewer Name

\_\_\_\_\_  
Reviewer Signature

\_\_\_\_\_  
Date