



July 2, 2019

Mr. Jim Alford
CHS Inc. / Zip Trip
16124 East Marietta Lane
Spokane, Washington 99216

Delivered via email jim.alford@chsinc.com

**SUBJECT: July 2019 Remedial Investigation Work Plan
Zip Trip 59
1321 Haynes Avenue, Miles City, Montana
MDEQ Facility ID# 09-08212; Release 471 and Work Plan 33879;
and Release 5247 and Work Plan 33880
Tetra Tech Project No. 117-7462048.100**

Dear Mr. Alford:

Tetra Tech, Inc. is pleased to submit this work plan for remedial investigation at the Zip Trip 59 facility (formerly Cenex General Store) located on Haynes Avenue in Miles City, Montana (Figures 1 and 2). This work plan was required by Mr. Jay Shearer of the Montana Department of Environmental Quality (MDEQ) in correspondence dated June 14, 2019 (MDEQ, 2019). In Mr. Shearer's correspondence MDEQ required the following tasks:

- *Prepare the WP in accordance with the RI Guidance found online at: http://deq.mt.gov/land/lust/cap_reports*
- *Discuss ongoing WP tasks and results with DEQ's project manager; submit written agreed-upon WP modifications as required to complete the WP objectives.*
- *Review previous remediation reports, maps, and data for the Facility as necessary for project management, site work and reporting; these documents are available in DEQ's Billings office.*
- *Conduct one groundwater monitoring event using low-flow methods for all Facility's wells and two down-gradient wells — MW-3A and MW-3B — installed for Release 4935 at the southeast corner of the former Gulf station on north side of Boutelle Street. Conduct sampling per DEQ's Groundwater Sampling Guidance available at: <http://deq.mt.gov/Land/lust/techguidlist>.*
- *Install soil borings to determine the extent and magnitude of petroleum impacts to soil and other potential receptors. Collect soil samples to document the vertical and lateral extent and magnitude of petroleum impacts.*
- *Analyze all samples for petroleum constituents as required by the Montana Tier 1 Risk-Based Corrective Action Guidance for Petroleum Releases; include analyses for lead scavengers for the groundwater samples.*

- *Validate all laboratory analytical data using DEQ's Data Validation Summary Form found online under the "Resources" tab at: <http://deq.mt.gov/Land/lust>.*
- *Prepare a Release Closure Plan (RCP); discuss results with DEQ's project manager. DEQ expects the RCP completion to be complex as it covers investigative and cleanup information. Use the RCP format found online under the "Resources" tab at: <http://deq.mt.gov/Land/lust>.*
- *Review and discuss with DEQ's project manager the available field data, boring logs, analytical data, and temporal information for the Releases. In conjunction with DEQ determine the apportionment of the petroleum-impacted soil between Releases 471 and 5247.*
- *Prepare and submit a Remedial Investigation Report detailing the results of the investigation. The report is expected to address all report-format sections contained in the RI Guidance found online at: http://deq.mt.gov/Land/lust/cap_reports. Append the RCP to the RI report.*
- *Submit WP and reports electronically following the Petroleum Tank Cleanup Section submittal requirements found under Resources at: <http://deq.mt.gov/Land/lust>.*

BACKGROUND INFORMATION

Zip Trip 59 is located at 1321 South Haynes Avenue in Miles City, Montana, in the NE $\frac{1}{4}$, NE $\frac{1}{4}$ of Section 3, Township 7 North, Range 47 East, Custer County, Montana (Figures 1 and 2). The site is situated adjacent to the northwest corner of the Interstate Highway 94 and Haynes Avenue Interchange.

A petroleum hydrocarbon release (Release #471) was discovered at this facility during October 1990 while replacing several underground storage tanks (USTs) and upgrading the petroleum distribution system at the site (Chen-Northern, 1991a). Approximately 1,800 cubic yards of petroleum hydrocarbon-impacted soils were excavated from the active UST basin and taken to a one-time landfarm for treatment (Chen-Northern, 1991a).

A soil and groundwater investigation identified petroleum-impacted soil and groundwater in and adjacent to, the UST basin south of the Cenex building, and in coarse-grained fill northeast of the Cenex building (Figure 2; Chen-Northern, 1991b and 1992). Groundwater monitoring, initiated at the site during November 1990 has indicated semi-confined groundwater with a nearly flat gradient and a flow direction generally toward the northwest. Several areas of perched groundwater have also been encountered in fill materials on-site.

A free product/groundwater recovery system was installed west of the Cenex building during August 1994 (Huntingdon, 1995). The system consisted of a gravel filled recovery trench with three recovery wells, free product storage tank, and wastewater treatment system. The system utilized a groundwater drawdown pump and a product recovery pump. Groundwater was treated and discharged to the Miles City sanitary sewer. Recovered free product was stored in an aboveground storage tank located in the on-site enclosure (Figure 2). This remediation system was modified during 1997 to recover both groundwater and free product, if present. The pumping rate from the recovery trench was approximately three gallons per minute. The system was operated on a seasonal basis, generally from April to November during 1995, 1996, 1998 and 1999. The system has not operated since 1999.

During May 1996, petroleum hydrocarbon-impacted soil (Release # 2652) was also excavated from a water main installation trench in Boutelle Street (north of the site) and from what appeared to be a former UST basin in the northeastern portion of the site (Figure 2). Approximately 1,550 cubic yards of impacted soil were removed from these excavations and transported to the Hartman Soil Treatment Facility (Maxim Technologies, 1996).

Groundwater monitoring and free product recovery were last conducted during May 2011 (Tetra Tech, 2011). Monitor well CGS-2 contained free product. Monitor well CGS-9 which historically contained product had become plugged at a depth of approximately seven feet below ground surface (Tetra Tech, 2011).

PROPOSED SCOPE OF WORK

The objective of the proposed scope of work is to document current petroleum hydrocarbon concentrations in site groundwater and determine the vertical and lateral extent of hydrocarbon impacts to soil and groundwater prior to developing a release closure plan. Our proposed scope of work consists of sampling the onsite monitoring wells, completing up to 36 soil borings, and collecting a groundwater sample from up to eight soil borings and collecting a minimum of one soil sample from each boring. Following collection of the samples, the soil borings will be abandoned. The proposed borings will be located in and around the areas of known releases.

These tasks are described below. Please note we have named the tasks according to the Montana Petroleum Tank Release and Compensation Board guidance for Standard Corrective Action Task Names.

TASKS 1 & 2 - Project Management

These tasks include preparing this work plan and project management time necessary for coordination and scheduling of the project with Zip Trip, MDEQ, adjacent land owners, and subcontractors. This task also includes time necessary for conducting an underground utility locate using the Montana One-Call service, a private utility locating service, arranging and tracking subcontractors, and communications. In addition, the current health and safety plan (HASP) will be updated and revised to address activities in this work plan prior to conducting any 2019 on-site activities. Also covered in this task is a meeting to discuss both the Release Closure Plan components and the apportionment of the petroleum-impacted soil between Releases 471 and 5247 as requested by Mr. Shearer.

TASK 3 – Groundwater Monitoring (Facility Wells)

One groundwater monitoring event will be conducted and will consist of the following activities:

- Depth to groundwater and/or free product thickness measurements will be collected from monitor wells CGS-2, CGS-4, CGS-5, CGS-9 and CGS-10 and recovery wells RW-1 through RW-3 (Figure 2) and two down-gradient wells — MW-3A and MW-3B — installed for Release 4935 at the southeast corner of the former Gulf station on north side of Boutelle Street using an electric water level probe. The water level probe will be decontaminated between well measurements by washing with *Liquinox*[®] soap and rinsing with potable water. Wash water will not be collected.
- Samples will be collected from all monitor wells not containing free petroleum hydrocarbon product. Wells will be purged using disposable plastic tubing with a peristaltic pump and low-flow sampling techniques. Field parameters consisting of pH, temperature, specific conductance, dissolved oxygen (DO) and oxidation-reduction

potential (ORP) will be continuously monitored during purging. Purging will continue until these parameters have stabilized or three well volumes have been removed. Purge water will not be collected.

- Following purging, water samples will be collected from each monitoring well by using a peristaltic pump. The samples will be collected at a rate not exceeding 0.1 gallons per minute (gpm) and transferred to the appropriate sampling containers. Samples will be placed in an iced-filled cooler and hand delivered to Energy Laboratories (Energy) or Pace Analytical Services, Inc. (Pace) in Billings, Montana. A chain-of-custody form will be completed and submitted to the laboratory with the samples.
- Water samples will be analyzed for volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH) screen in accordance with Massachusetts Department of Environmental Protection (MDEP) methods (MDEP, 2008a; MDEP, 2008b). If the EPH screen concentration exceeds the MDEQ 1,000 parts per billion fractionation threshold concentration, the sample will be analyzed for EPH fractions. For budgeting purposes, it is assumed that seven samples will be analyzed for EPH fractions. Samples will also be analyzed for lead scavengers ethylene dibromide (EDB) using EPA Method 8011 and 1,2-dichloroethane (1,2-DCA) using EPA Method 8260. For budgeting purposes, it is assumed that eight samples will be analyzed for lead scavengers which includes a duplicate sample.
- One trip blank and one duplicate sample will be collected with each groundwater monitoring event. The trip blank sample will be analyzed for VPH only and the duplicate sample will be analyzed for VPH, EPH, EDB and 1,2-DCA.
- All groundwater data will be validated using MDEQ's Data Validation Summary form.

TASKS 4-8 – Soil Boring Installation (Soil and Groundwater Sample Collection)

Prior to installing the soil borings, the Montana One-Call underground utility location service will be contacted to locate underground public utilities at the site. In addition, a subcontracted utility locating service will be used to locate private underground utilities. Given the amount of underground utilities present, a soil vacuum truck will be used to pre-drill the soil boring locations to avoid potential damage to buried utilities and appurtenances. The following is a summary of the activities which will be conducted as part of this investigation:

- Each soil boring locations will be marked with paint. After marking and clearing with non-intrusive underground locating, concrete and asphalt at each soil boring location will be cut.
- Each soil boring location will be excavated using a soil vacuum truck. The excavations will extend to a depth of approximately three to eight feet below ground surface (bgs) depending on the location to ensure that the boring is clear of underground utilities.
- The daylighted excavated holes will be backfilled with 3/4-inch crushed gravel. Cuttings from the vacuum truck excavation will be stockpiled at a lined area onsite.
- A direct push method will be used to advance borings to a maximum depth of 25 feet bgs. The approximate location of each soil boring is shown on Figure 2. Borings placed in the gasoline dispenser area (east of the building) will be terminated in the clay layer, so as not to complete a possible pathway for contamination to migrate to the underlying sand aquifer. For cost estimation purposes, it is assumed that no more than 36 borings will be advanced to investigate the site.

- Soil samples will be collected continuously, and a Tetra Tech Project Scientist will log each sample for soil type, density, moisture content, color, and petroleum hydrocarbon impacts.
- Each sample will be field screened for hydrocarbon impacts using visual observations of staining, odor, and flame-ionization detector (FID) or photoionization detector (PID) measurements using Tetra Tech's standard jar-headspace procedure.
- Soil samples will be collected from the depth interval in which field screening indicates the interval of greatest petroleum impacts, and/or at the water table in each boring. Additional samples will be collected from selected borings with petroleum hydrocarbon impacts at depths where no impacts are present to verify the thickness of petroleum impacts. Soil borings where there are no petroleum impacts appear present will be sampled and the groundwater interface. These samples will be analyzed by the laboratory for VPH and EPH screen. If the EPH screen concentration exceeds the MDEQ 200 milligrams per kilogram fractionation threshold concentration, the sample will be analyzed for EPH fractions.
- Groundwater samples will be collected from select soil borings to further delineate the extent of groundwater impacts beyond the monitoring well network. We assume that seven samples will be collected along with one duplicate. The samples will be placed in laboratory provided containers, preserved as appropriate, transported in an ice-filled cooler, and submitted to the laboratory for analysis of VPH and EPH screen. If the EPH screen concentration exceeds the MDEQ 200 milligrams per kilogram fractionation threshold concentration, the sample will be analyzed for EPH fractions.
- The soil borings will be abandoned following the sampling by filling the boring with a bentonite plug at the groundwater interface and drill cuttings or crushed gravel to near the ground surface. The surface penetrations will be patched with concrete or asphalt to match the existing surface.
- All soil data will be validated using MDEQ's Data Validation Summary form.

TASK 9 – Reporting

Following receipt of the laboratory analytical reports, Tetra Tech will prepare and submit to MDEQ a remedial investigation report. The report will provide a summary of results of the above tasks and recommendations for any future work including preparation of a Release Closure Plan (RCP).

SCHEDULE AND BUDGET

We will schedule this work immediately upon receiving authorization to proceed from CHS, Inc. One copy of this work plan has been forwarded to the MDEQ and to the Montana Petroleum Tank Release Compensation Board for potential reimbursement. The report of our field activities will be presented within 45 days of receiving laboratory analytical results.

Estimated project costs are shown on the estimated cost worksheet included in Attachment A and the groundwater monitoring unit cost worksheet for the Petroleum Tank Release Compensation Board is included in Attachment B. The subcontractor bids are included in Attachment C. These costs will not be exceeded without your approval.

AUTHORIZATION

This work will be conducted in general accordance with the Terms and Conditions presented in the Master Technical Services Agreement between CHS Inc. and Tetra Tech, dated January 1, 2009 and the current rate sheet on file. This proposal may be accepted by signing the attached work authorization (Attachment D) to initiate the work, retaining a copy for your files, and return a copy to our Billings office. The proposal for services and accompanying limitations shall constitute the exclusive services to be performed for this project.

We appreciate the opportunity to provide this proposal and look forward to working with you on this project. If you have any questions or comments regarding this proposal, please do not hesitate to call me in our Billings, Montana office at (406) 248-9161.

Respectfully Submitted,

Tetra Tech, Inc.



Paul E. Lemire
Environmental Scientist



Jeff Rice
Project Manager

JRR/PR/ba

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Enclosures:

Figures

Attachment A: Estimated Cost Worksheet

Attachment B: PTRCB Groundwater Monitoring Unit Cost Worksheet

Attachment C: Subcontractor Bids

Attachment D: Work Authorization

cc: Jim Alford, CHS, Inc/Zip Trip jim.alford@chsinc.com

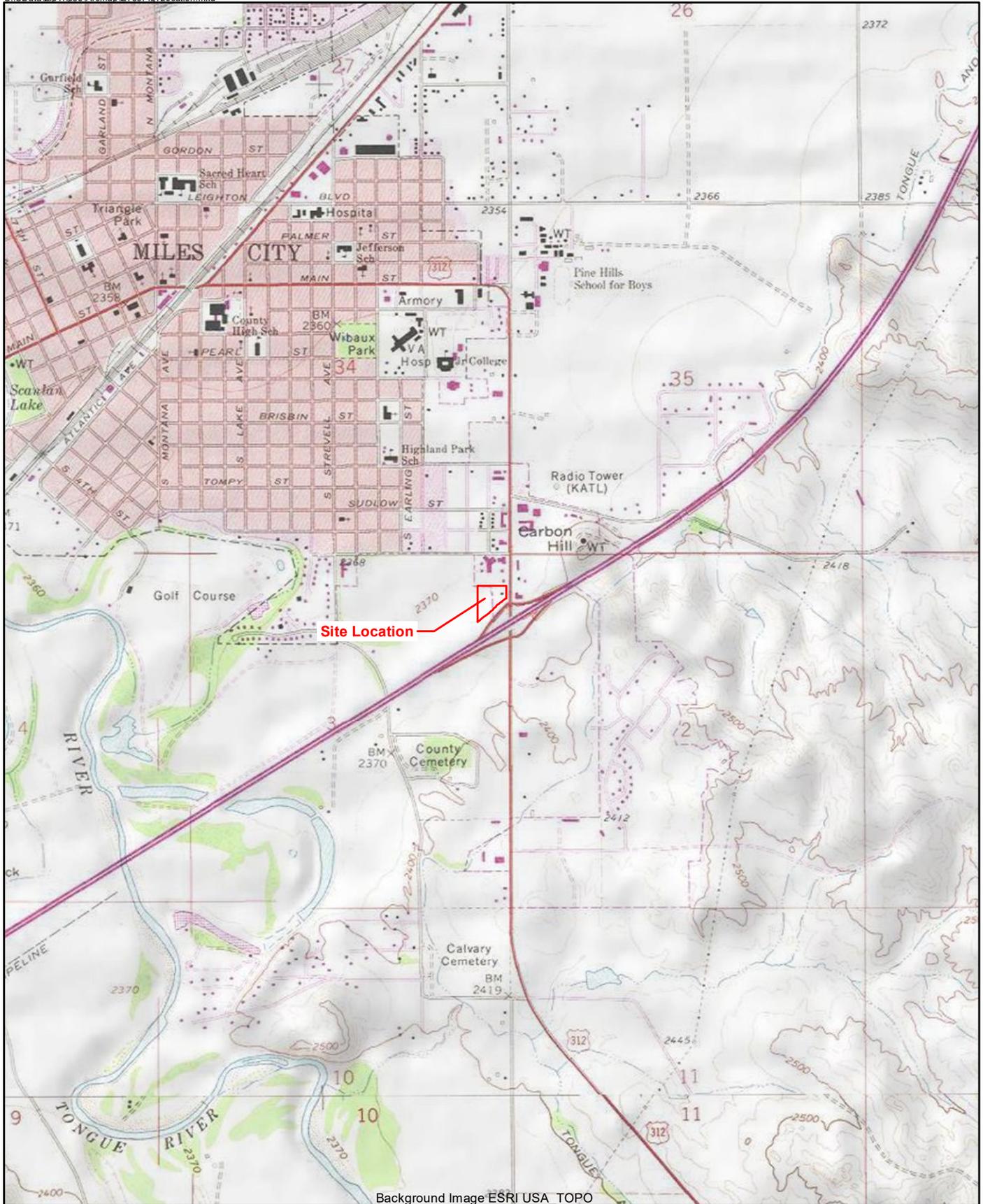
Jeff Rice, Tetra Tech jeffrey.rice@tetrattech.com

Jay Shearer, MDEQ jshearer@mt.gov

REFERENCES

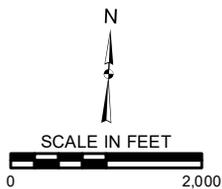
- Chen-Northern, Inc., 1991a. Phase 1 Initial Response and Abatement Investigation. Report issued to Cenex Petroleum, Inc. January.
- Chen-Northern, Inc., 1991b. Phase 2 Initial Response, Abatement, and Tank Closure Investigations. Report issued to Cenex Petroleum, Inc. June.
- Chen-Northern, Inc., 1992, Report of Phase III Soil and Groundwater Investigation, report issued to Cenex Petroleum, Inc., September.
- Huntingdon Engineering & Environmental, Inc., 1995. Remedial Activities and Quarterly Groundwater Monitoring Report. Report issued to Cenex Petroleum, Inc. March.
- Maxim Technologies, Inc, 1996, Remedial Activities and Groundwater Monitoring Report, April, 1996 through July, 1996, Cenex General Store. Report issued to Cenex Supply and Marketing, Inc. September.
- MDEQ, 2019. Remedial Investigation Work Plan Required for the Petroleum Release at Zip Trip 59 (formerly Cenex General Store), 1321 Haynes Avenue, Miles City, Custer County, Montana; Facility ID 09-08212, Release 471, Work Plan 33879, and Release 5247, Work Plan 33880. MDEQ letter to Mr. Jim Alford, CHS Inc. / Zip Trip dated June 14.
- MDEQ, 2018. Montana Tier 1 Risk-Based Corrective Action Guidance for Petroleum Releases. May.
- MDEP, 2008a. Massachusetts Department of Environmental Protection (MADEP), 2008. Method for Determination of Volatile Petroleum Hydrocarbons (VPH). Revision 1.1. May.
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- Tetra Tech, 2011. Report of Groundwater Monitoring, 1321 Haynes Avenue, Miles City Montana. Report issued to CHS, Inc. August 26.

FIGURES

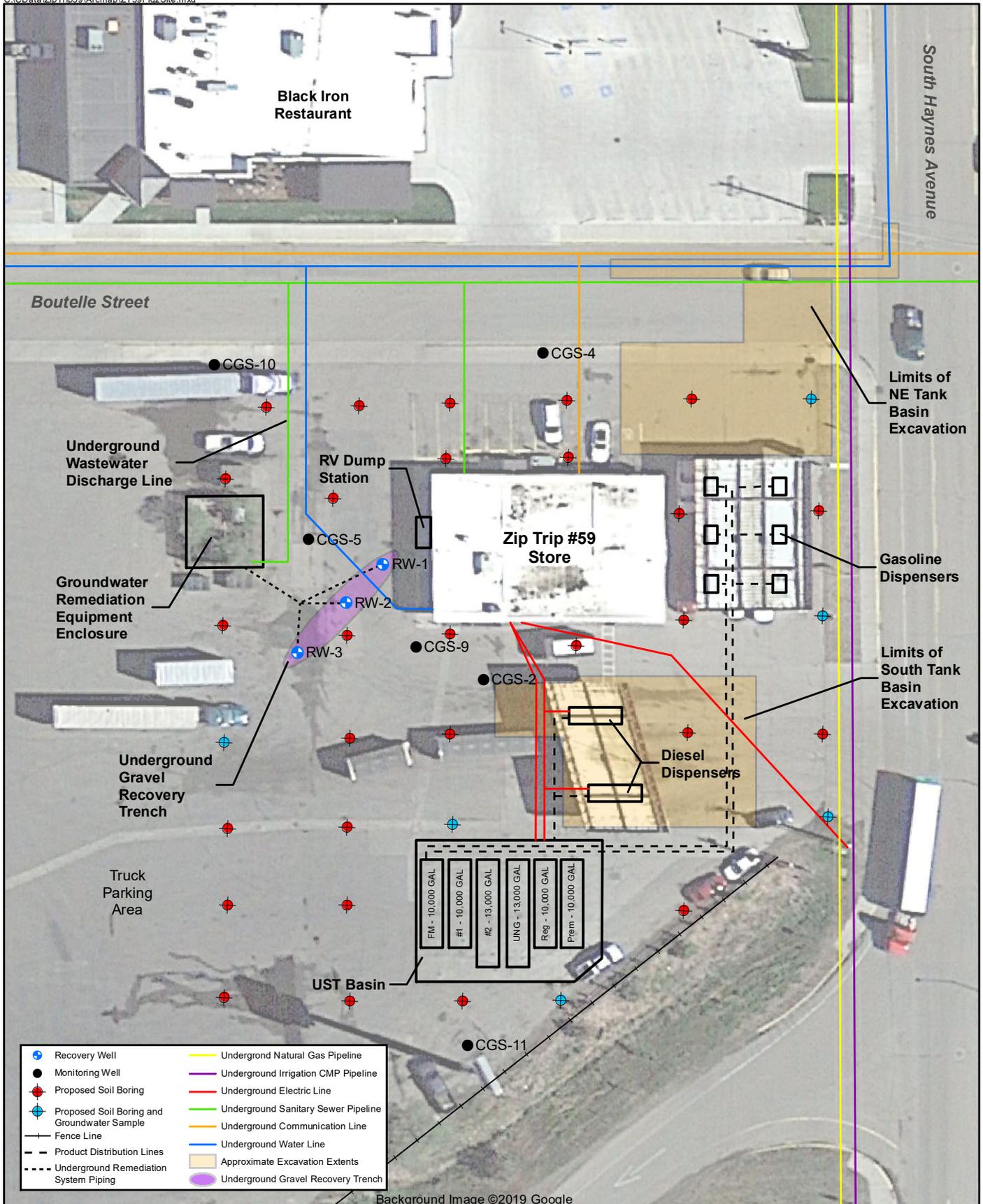


Background Image ESRI USA TOPO

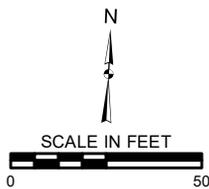
117-7462048
6/21/2019



Location Map
Zip Trip #59
1321 South Haynes Avenue
Miles City, Montana
Figure 1



117-7462048
7/2/2019



Site Map
Zip Trip #59
1321 South Haynes Avenue
Miles City, Montana
Figure 2



ATTACHMENT A

Estimated Cost Worksheet

COST ESTIMATE
July 2019 Work Plan
Zip Trip 59, Miles City, Montana
July 2, 2019

ITEM	QUANTITY	RATE	UNITS	COST
Task 1: Work Plan Preparation				
Project Manager	4	148.00	per hour	\$ 592.00
Project Hydrogeologist	20	127.00	per hour	\$ 2,540.00
Drafting	4	105.00	per hour	\$ 420.00
Clerical	1	55.00	per hour	\$ 55.00
Subtotal				\$ 3,607.00
Task 2: Project Management				
Project Manager	8	148.00	per hour	\$ 1,184.00
Project Hydrogeologist	12	127.00	per hour	\$ 1,524.00
Sr. Technician	8	87.00	per hour	\$ 696.00
Subtotal				\$ 3,404.00
Task 3: Groundwater Monitoring				
<i>Annual Groundwater Monitoring (see attached cost breakdown)</i>				
Annual Sampling	1	7,837.00	LS	\$ 7,837.00
Subtotal				\$ 7,837.00
Task 4: Underground Utility Locating				
Project Hydrogeologist	24	127.00	per hour	\$ 3,048.00
Private utility locating service	12	100.00	per hour	\$ 1,200.00
Vacuum excavating service	16	150.00	per hour	\$ 2,400.00
Asphalt pavement cutting	150	5.00	per LF	\$ 750.00
Subcontractor labor	16	40.00	per hour	\$ 640.00
Crushed rock	5	15.50	per CY	\$ 77.50
Backhoe and operator	10	110.00	per hour	\$ 1,100.00
Reinforced plastic liner	1	250.00	each	\$ 250.00
Traffic control equipment rental	1	250.00	each	\$ 250.00
Subtotal				\$ 9,715.50
Task 5: Install Soil Borings				
Senior Technician	50	87.00	per hour	\$ 4,350.00
Project Hydrogeologist	50	127.00	per hour	\$ 6,350.00
Direct push contractor mobilization	755	2.50	per mile	\$ 1,887.50
Direct push project preparation	4	85.00	per hour	\$ 340.00
Direct push soil boring	28	180.00	per hour	\$ 5,040.00
Direct Push contractor lodging and per diem	4	150.00	per day	\$ 600.00
Bentonite chips	36	10.50	per bag	\$ 378.00
Geoprobe sample liners	180	8.00	each	\$ 1,440.00
Direct push decon/cleanup	4	85.00	per hour	\$ 340.00
Concrete patch bags	30	7.00	per bag	\$ 210.00
Subcontractor labor	8	50.00	per hour	\$ 400.00
Peristaltic pump rental	5	35.00	per day	\$ 175.00
Groundwater sampling tubing	250	0.50	per foot	\$ 125.00
Traffic control equipment rental	1	250.00	each	\$ 250.00
Subtotal				\$ 21,885.50
Task 6: Laboratory Analysis				
Soil VPH analysis	44	120.00	each	\$ 5,280.00
Soil EPH analysis w/fractions	44	225.00	each	\$ 9,900.00
Groundwater VPH analysis	8	120.00	each	\$ 960.00
Groundwater EPH w/fractions analysis	8	225.00	each	\$ 1,800.00
Subtotal				\$ 17,940.00

COST ESTIMATE
July 2019 Work Plan
Zip Trip 59, Miles City, Montana
July 2, 2019

ITEM	QUANTITY	RATE	UNITS	COST
Task 7: Tetra Tech Mobilization				
Mobilization Utility Locating	300	3.53	per mile	\$ 1,059.00
Mobilization Soil Boring Installation	300	5.07	per mile	\$ 1,521.00
Subtotal				\$ 2,580.00
Task 8: Tetra Tech Lodging and Per Diem				
Lodging	10	125.00	per day	\$ 1,250.00
Per Diem	13	45.00	per day	\$ 585.00
Subtotal				\$ 1,835.00
Task 9: Reporting (Includes preparation of a Release Closure Plan)				
Project Manager	8	148.00	per hour	\$ 1,184.00
Sr. Hydrogeologist	60	127.00	per hour	\$ 7,620.00
Project Scientist (Data Validation)	24	127.00	per hour	\$ 3,048.00
Drafting	10	105.00	per hour	\$ 1,050.00
Clerical	4	55.00	per hour	\$ 220.00
Subtotal				\$ 13,122.00
TOTAL				\$ 81,926.00



ATTACHMENT B

PTRCB Groundwater Monitoring Unit Cost Worksheet

Petroleum Tank Release Compensation Board Groundwater Monitoring and Sampling Unit Cost Worksheet

Contractor Information

Company Name:
 Address:
 City, State, Zip:
 Cost Estimator: Phone:

Signature: Date:

Project Information

Site Name: Facility ID#
 Address: Release #
 City: WP ID#

Monitoring Well Details

Total Number of Wells at Site
 Number of Water Level Measurements Only ⁽²⁾
 Number of Wells to be Monitored/Sampled ⁽³⁾
 Well Casing Diameter (inches)
 Average Depth to Groundwater (ft)
 Average Depth of Wells (ft)

Well Purging Method

Hand Bailing
 Peristaltic Pump
 Submersible Pump
 Micropurge
 No Purge
 Other (please specify)

Monitoring/Sampling Interval

Estimated Start Date:
 Quarterly # of events
 Semi-annual # of events
 Annual # of events
 Other # of events (specify)

Other Services

Free Product Recovery
 Groundwater Well survey
 Wellhead retrofit/reconstruction
 Other (please specify)

Cost Estimate Explanation:

- ⁽¹⁾ Mobilization/Demobilization: Includes all costs and mileage to transport equipment, materials, and personnel to and from the site location. More than one mobilization event will require justification and pre-approval by the DEQ-PTCS and Board staffs. This item should be on a per mile unit rate.
- ⁽²⁾ Water Level Measurements: Includes all costs (labor, equipment, materials, and well consumables) to measure groundwater depth, collect other groundwater information from well, and decontaminate equipment. The well monitoring costs should be on a per well basis and does not include purging and sampling of the well.
- ⁽³⁾ Well Monitoring/Purging/Sampling: Includes all costs (labor, equipment, materials, and well consumables) to monitor (see above), purge, sample groundwater, decontaminate equipment, take water level measurements and handle disposal of contaminated purge water. The cost should be on a per well basis.
- ⁽⁴⁾ Laboratory Analysis: Includes all laboratory costs for all wells, for duration of project. It is realized that some laboratory analyses will not be conducted for every event and that the well sampling frequency may change.
- ⁽⁵⁾ PTRCB Sampling Fee: Includes all costs related to management of the sample including: sample container, cooler, packing, shipping, handling, sample preservation, and office related handling charges. The sample is defined as the laboratory ID number on the laboratory invoice.
- ⁽⁶⁾ Report Preparation and Project Management: Includes all costs (labor and materials) project management, report preparation, and report submittal, including all office related costs, per groundwater sampling event.

Groundwater Monitoring and Sampling Unit Cost Worksheet

Task	Unit Cost	Number of Units	Total Cost
Work Plan Preparation	<input type="text"/>	<input type="text" value="0"/>	\$0.00
Project Management	\$127.00 /hr	<input type="text" value="2"/>	\$254.00
Mobilization/Demobilization ⁽¹⁾	\$2.04 /mile	<input type="text" value="300"/>	\$612.00
Field Work			
Water Level Measurements ⁽²⁾	<input type="text"/> /well	<input type="text"/>	\$0.00
Well Monitoring/Purging/Sampling ⁽³⁾	\$186.00 /well	<input type="text" value="10"/>	\$1,860.00
Other Service (please specify) <input type="text"/>	<input type="text"/>	<input type="text"/>	\$0.00
Other Service (please specify) <input type="text"/>	<input type="text"/>	<input type="text"/>	\$0.00
Lodging & Per Diem (Lodging – actual only)			
Lodging: # of people <input type="text" value="1"/>	\$125.00 /person per day	<input type="text" value="1"/>	\$125.00
Food: # of people <input type="text" value="1"/> (\$23.00 max a day allowed)	\$23.00 /person per day	<input type="text" value="2"/>	\$46.00
Laboratory Analysis ⁽⁴⁾			
Volatile Petroleum Hydrocarbons (VPH)	\$120.00 /sample	<input type="text" value="10"/>	\$1,200.00
Extractable Petroleum Hydrocarbons (EPH)			
EPH “screen”	\$75.00 /sample	<input type="text" value="10"/>	\$750.00
EPH “fractions”	\$150.00 /sample	<input type="text" value="7"/>	\$1,050.00
BTEX/MTBE/Naphthalene only-method:	<input type="text"/> /sample	<input type="text"/>	\$0.00
Polyaromatic Hydrocarbons (PAHs)	<input type="text"/> /sample	<input type="text"/>	\$0.00
PTRCB sampling fee (\$10.00 allowed) ⁽⁵⁾	\$10.00 /sample	<input type="text" value="10"/>	\$100.00
Other (please specify) <input type="text" value="lead scavengers; EDB and 1,2-DCA"/>	\$230.00 /sample	<input type="text" value="8"/>	\$1,840.00
Other (please specify) <input type="text"/>	<input type="text"/> /sample	<input type="text"/>	\$0.00
Report Preparation ⁽⁶⁾			
Quarterly	<input type="text"/> /report	<input type="text"/>	\$0.00
Semi-annual	<input type="text"/> /report	<input type="text"/>	\$0.00
Annual	<input type="text"/> /report	<input type="text"/>	\$0.00
Other (Please specify) <input type="text"/>	<input type="text"/>	<input type="text"/>	\$0.00
Monitoring & Sampling Total:			\$7,837.00

Additional Conditions/Comments/Costs:

Trip blanks, 1 for each event, VPH analysis
 Duplicates, 1 for each event, VPH, EPH, and lead scavengers analysis

 Reporting costs are presented in primary cost estimate

If you require assistance, call 406-444-9710
 Submit completed form to:
 Petroleum Tank Release Compensation Board
 PO Box 200902, Helena MT 59620-0902



ATTACHMENT C

Subcontractor Bids



UNIT COST ESTIMATE
 Enviro Probe Services



Date: 21-Jun-19
Company: Tetra Tech
Contact: Paul Lemire
Project Description: Miles City; 36 soil borings to 25'

Note: Enviroprobe Services is not responsible for transport and/or disposal of containerized IDW.

Geoprobe Services 6600

<u>Geoprobe 6600</u>	<u>Unit Price</u>	<u>Unit</u>	<u>Quantity</u>	<u>Cost</u>
- Project Coordination/Manager	\$100.00	Hour	1	\$100.00
<u>Soil Boring</u>				
- Geoprobe 6600	\$180.00	Hour	28	\$5,040.00
-Sample Liners	\$8.00	Each	180	\$1,440.00
- Bentonite	\$10.50	Each	36	\$378.00
<u>Misc. Costs</u>				
- Stand-By (As approved)	\$123.00	Hour	0	\$0.00
- Decontamination/Clean-up	\$85.00	Hour	4	\$340.00
- Prep/Load Supplies/Equipment	\$85.00	Hour	2	\$170.00
<u>Travel & Mileage</u>				
- Per Diem	\$150.00	Day	4	\$600.00
Lodging Actual; Meals \$30/day each				
- Geoprobe Mileage	\$2.50	Mile	755	\$1,887.50
			Subtotal	\$9,955.50

Project Cost **\$9,955.50**

Client will be responsible for all permits, access permission, utility locates, and traffic control, if necessary.
 Enviro Probe Services' assumes no responsibility for any waste generated during the sampling process.
 Estimated project length is 4 days including travel.
 Motel invoiced at cost.
 Estimate Valid for 90 Days

Lemire, Paul

From: Michael Zak <mikez@interstatedrilling.com>
Sent: Friday, June 21, 2019 8:45 AM
To: Lemire, Paul
Subject: Re: Zip Trip 59 Miles City Soil Borings

 **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. 

here is a quick bid for your project

Mob \$2500
DP Borings 36 x 25' 900' @ \$14 per ft = \$12,600
Expenses 4 @ \$300 = \$1200
Bentonite Chips 50 x 10 = \$500

On Jun 20, 2019, at 4:49 PM, Lemire, Paul <Paul.Lemire@tetrattech.com> wrote:

Mike, I need a bid for installing 36 holes to 25 feet deep in clay and silt at the Cenex Store at 1321 Haynes Avenue, Miles City, MT. We need continuous samples with direct push and backfill with bentonite chips. We anticipate starting in late July. Thanks. Paul

Best Regards,

Paul E. Lemire | Hydrologist

Phone: [406.248.9161](tel:406.248.9161) | Fax: [406.248.9282](tel:406.248.9282) | Direct Line: [406.384.0311](tel:406.384.0311) | Mobile: [406-671-4850](tel:406-671-4850)
paul.lemire@tetrattech.com

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7100 Commercial Avenue | Billings, MT 59101 | www.tetrattech.com

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Lemire, Paul

From: Yon A. Malkuch <ymalkuch@wavecom.net>
Sent: Thursday, June 27, 2019 3:17 PM
To: Lemire, Paul
Subject: 1321 Haynes Avenue - Miles City, MT Direct Push bid

 **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. 

Paul,

Enclosed is the bid for the work at the Cenex Station located at 1321 Haynes Avenue in Miles City, MT.

The following cost estimate is formally submitted:

Cost for this work would be in the range of \$16,675.00 to \$17,175.00.

This price is based on completing this work as a standalone project, with no other work to share mob/demob costs. Should we be able to schedule this project with other work in the Miles City area, then costs for mob/demob could potentially be lowered.

This price is based on up to thirty six (36) borings (soil samples only) - up to an approximate depth of 25', - with continuous sampling.

We have not been informed if this work is scheduled to be completed in close proximity of power lines and other overhead hazards/lines/equipment. Costs could increase – if the potential dangers associated with these working quarters/conditions are present.

Any damaged, broken, bent, or lost tooling will be charged at cost - plus shipping, plus sales tax (tax based on our physical location in Sheridan, WY).

This price is also based on:

- 1.) Completing up to thirty six (36) soil borings via direct push methods, to depths UP TO 25' bgs. This direct push methodology should produce sample cores inside the 4' long clear, polyacetate liners. Length of soil sample, and amount of soil recovered is dependent upon sub-

surface conditions. There is no guarantee that each 4' push will result in the collection of 4' of soil (or any soil/borehole material), from any given interval, in the soil sample liners.

- 2.) This price DOES NOT INCLUDE asphalt or concrete coring for any borings. Additional fees will be charged to cover the coring costs for any locations which are covered with asphalt, concrete, frozen, or otherwise consolidated materials that require the use of coring methods to gain access to the subsurface soils, and/or to allow for the setting of flush mount manholes.
- 3.) This price DOES NOT include well installation, well development, or any type of water sampling protocol. There are NO costs included for the containerization, transport, or disposal of purged water.
- 4.) This price does not include patching of the borehole surfaces (those asphalt or concrete cored areas completed by Tetra Tech, that were cored to allow for direct push tooling access at boring locations).
- 5.) This price does include up to 7 hours standby for the collection of water samples from up to seven (7) boreholes. As per our telephone conversation, Tetra Tech is going to try to sample directly out of the direct push tooling, following removal of the last sample interval (sample liner with soils). **We will run some numbers to see if we can provide temporary 1" piezometers in these seven chosen locations, for a price that is equal to, or less than the seven (7) hours standby included.**
- 6.) We anticipate this work to take 4-5 days to complete.

****Potential Additional Costs:**

Should the surface, or sub-surface, be gravel, soils, or other materials that are frozen, packed, solidified, or their current state requires the use of hollowstem/solidstem augering (or other coring means/methods) to gain access to non-solidified soils/materials, to allow for the collection of direct push samples - or to allow for the setting of flush mount (or other types of) well protectors, then additional fees for equipment and labor will be charged.

If locations are off road, and require access via two-track or rutted travel paths, or if 4-wheel drive is required to gain access – then minimum **additional daily fees of \$375.00** will be charged to cover wear and tear on the drill transport vehicle, and other field support vehicles. These additional charges could be higher depending upon the conditions. Should Y Environmental get any of their equipment stuck, due to access issues (including, but not limited to; mud, snow, ice, soft ground, subsurface voids) – then the cost for equipment towing/retrieval will be charged at actual cost, plus 15%. Any damages to Y Environmental equipment due to access issues will be billed at cost, plus any downtime, and mob/demob to travel to city/town where repairs are needed.

**** Any failed borings (of any method), will be billed based upon the unit rates utilized to complete this cost estimate. There is no guarantee that the target depth of 25' bgs, can be achieved via direct push, solidstem, or hollowstem methods.**

This does not include any specialized on-site, pre-work safety training, meetings, or other site time – excepting general tail-gate safety meetings of 5 minutes or less per day.

This does not include any specialized insurance requirements over and above what our normal, and current lines are. Nor does it include any specialized requirements/endorsements, additional insureds, or waivers

This does not include any steel drums for containerizing waste, cuttings, or any liquids.

This does not include any disposal fees, costs, tares, or other charges for disposal of any cuttings or water generated from this project.

This does not include any engineering, surveying, or other professional service fees.

This does not include repair to any concrete, asphalt, gravel, seeded, grassy, or landscaped areas - excepting cold patch for asphalt, or concrete for boreholes – if any.

This bid does not include the removal/takedown or replacement/re-installation of any fencing, parking palls, parking blocks or other items that may hinder access to proposed boring locations.

This bid does not include any traffic control, flagging personnel, cones, barrels, signage, or time for obtaining permits for such.

This bid does not include any time/fees for obtaining permits, right-of-way access, or trespass fees.

This bid **does include** up to seven hours standby. However, this bid does not include any demurrage, or other related shutdown/stop work costs/fees. If required to standby for greater than seven (7) hours, or if we incur demurrage or shut down costs - additional fees for such will be assessed. Demurrage/project shutdown will be charged at a minimum of \$275.00/hour, and \$200.00/day/man per diem.

This bid does not include any time/footage fees for failed borings. Borings that are unable to be completed due to debris, boulders, cobbles, flowing sands, heaving sands, refusal, consolidated materials, etc.

This bid for the is based on utilizing direct push methods - if we are unable to complete to via direct push methods, then we would have to switch to hollowstem methods which will incur additional fees for drilling, setting of wells, materials (sand/bentonite), and other potential additional costs.

This price is good for 45 days. Payment will be net 30 after invoiced.

This bid is based on weather conditions that do not hinder any aspect of our proposed work. This bid is based on completing work with ambient temperatures above 40 degrees F, and not in any excessive or hard wind, rain, or other inclement conditions.

This bid is based on "easy" access to all boring locations.

If successful low bidder, we will forward a formal proposal with our standard terms and conditions. **Or, This estimate can be used as our proposal.**

The information contained above is proprietary in nature, and cannot be relayed or disseminated to any other parties without our express written permission.

Thank you for the opportunity to submit this bid to you!!

Yon A. Malkuch
Operations Manager

Y Environmental
P.O. Box 433
Sheridan, Wy 82801
307-672-3937 – office
307-752-0007 – cell

ymalkuch@wavecom.net



ATTACHMENT D

Work Authorization



WORK AUTHORIZATION

TO: Tetra Tech, Inc.

FROM: CHS Inc. / Zip Trip

WORK AUTHORIZATION NO.: 2

PROJECT TITLE: July 2019 Remedial Investigation Work Plan

PROJECT LOCATION: CHS/Zip Trip #59, 1321 Haynes Avenue in Miles City, Montana

Pursuant to the terms and conditions of the Consulting Services Agreement dated January 1, 2009, this Work Authorization hereby authorizes Tetra Tech, Inc. to perform the specific services and under the particular conditions set forth herein:

- 1. **SCOPE OF WORK:** Nine Standard Corrective Action Tasks.
- 2. **COMPENSATION:** We propose to conduct this project on an actual time and materials basis.
- 3. **BILLING SCHEDULE:** Monthly
- 4. **TIME FOR COMMENCEMENT:** July 2019
- 5. **TIME FOR COMPLETION:** August 2019
- 6. **REPORTING REQUIREMENTS:** Report
- 7. **OTHER PROVISIONS:** None

Upon execution of this Work Authorization, Client and Tetra Tech agree to bound by and comply with all the terms and conditions contained in the above referenced Consulting Services Agreement, except as modified by the specific terms and conditions, if any, contained herein.

APPROVED AND ACCEPTED BY:

CHS Inc./Zip Trip
(Client)

Tetra Tech, Inc.
(Consultant)

Signed: _____

Signed: 

Name: _____

Name: Jeff R. Rice

Title: _____

Title: Env Group Manager

Date: _____

Date: July 2, 2019

Phone No.: _____