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AMERICAN
ENGINEERING TESTING

REPORT OF REMEDIAL EXCAVATION

Fall River Road Petroleum Release
Lat/Long: 43.413139°, -103.447079°
Hot Springs, South Dakota

AET Project No. P-0044795
SDDANR Spill No. 2025.007

Date:
July 28, 2025

Prepared for:
Environmental Works, Inc.
2770 Industrial Lane
Broomfield, Colorado 80020

Geotechnical • Materials
Forensic • Environmental
Building Technology
Petrography/Chemistry

American Engineering Testing
1745 Samco Road
Rapid City, SD 57702
TeamAET.com • 800.792.6364

July 28, 2025

Environmental Works, Inc.
2770 Industrial Lane
Broomfield, Colorado 80020

Attn: Ian Weigel – Emergency Response Project Manager
Email: iweigel@environmentalworks.com

Subject: Report of Remedial Excavation
Fall River Road Petroleum Release
(43.413139°, -103.447079°)
Hot Springs, South Dakota
AET Project No. P-0044795
SD DANR Spill Case No. 2025.007

Dear Mr. Weigel:

American Engineering Testing (AET) has completed the enclosed report of Remedial Excavation at the above referenced site. These services were performed according to our proposal dated June 19, 2025. The attached report is being submitted as an E-document. If you require hard copies of the report, please let us know and they will be made available.

We appreciate the opportunity to have been of service to you on this project. If you have any questions regarding the information presented in this report or if we can be of additional assistance, please contact me.

Sincerely,
American Engineering Testing

Jeremy J. Huot, CPRR
Environmental Project Manager
jhuot@teamAET.com
Office: (605) 388-0029

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REPORT OF REMEDIAL EXCAVATION
FALL RIVER ROAD PETROLEUM RELEASE
LAT/LONG: 43.413139°, -103.447079°
HOT SPRINGS, SOUTH DAKOTA
AET PROJECT NO. P-0044795

1.0 INTRODUCTION

1.1 Site Description

The site is located within the south right-of-way (ROW) of Fall River Road, approximately one mile southeast of Hot Springs, South Dakota (SD) (Figure 1, Appendix A). The approximate latitude and longitude of the site is 43.413139°, -103.447079°. The Public Land Survey System location of the site is described as the SW¼ of the NE¼ of Section 30, Township 7 South, Range 6 East, Black Hills Principal Meridian, SD.

1.2 Background Information

Based on information obtained from the Environmental Works, Inc. and the SD Department of Agriculture and Natural Resources (DANR) online database, it is AET's understanding that up to 75 gallons of diesel fuel along with some potential motor oil was released into the Fall River Road ROW as a result of a vehicle accident which occurred in January of 2025. American Engineering Testing, Inc. (AET) was contracted by Environmental Works, Inc. to perform remedial excavation observations, soil screening/sampling, and reporting by a SD Certified Petroleum Release Remediator (CPRR).

1.3 Scope of Work

The scope of work we performed on this project consisted of the following items:

1. mobilizing a SD CPRR to the project site to meet with Environmental Works, Inc. to observe and assist in directing the excavation of petroleum impacted soil;

2. collecting a representative composite sample of the petroleum hydrocarbon impacted soil prior to excavation activities and analyzing the sample for the presence and concentration total extractable hydrocarbons (TEH) and naphthalene;

3. collect periodic soil samples from the excavation zone during excavation activities and screening the samples for the presence and concentration of organic vapors as an indication of petroleum hydrocarbon impacts;

4. collecting two representative clearance grab soil samples from the terminal depth of the excavation floor and analyzing each sample for the presence and concentration of TEH and naphthalene;

5. based on the project data collected, preparing a report for the project including site maps, photos documenting the excavation, our field observations, field screening results, analytical soil sample test results, and our conclusions and recommendations based on the project data compared to the Administrative Rules of SD (ARSD).

2.0 PROJECT RESULTS

2.1 Field and Excavation Observations

AET personnel mobilized to the site on June 26, 2024, to inspect the petroleum release attributed to the vehicle accident. Upon arrival at the site, AET personnel observed visibly impacted vegetation along the south side of Fall River Road. The impacted area extents were measured to be approximately 10-foot (ft) by 20-ft. AET noted petroleum odors in the area of the release and on-site observations of the lateral footprint of the release indicated that the release likely exceeded the SDDANR reportable spill volume of 25 gallons. While on-site, AET personnel collected a composite soil sample from the impacted area to be analyzed for TEH and naphthalene.

AET observed Fall River to be approximately 50 ft to the southwest of the release location. Lateral extents of the petroleum impacts were not observed to extend to Fall River and no indication of surface water impacts were observed.

AET observed and assisted in directing excavation of the impacted soil. The impacted area was excavated approximately 1.0 to 2.0 ft below grade (bg). The approximate lateral extents of the excavation are depicted on Figure 2, Appendix A. The soil encountered during the excavation activities at the site consisted of brown, moist, sandy silt.

Petroleum impacted areas were identified through visual observation, olfactory observations, and by use of a photoionization detector (PID) utilized to detect petroleum

organic vapors, using the methods described in Appendix B. A table listing the soil screening locations and organic vapor screening results is included on Figure 2.

Environmental Works, Inc. excavated all observable petroleum impacted soil at the site. Petroleum impacts were limited to the lateral area previously discussed and were observed penetrating no more than 1.0 ft bg in the eastern area of the excavation and 2.0 ft bg in the western area of the excavation. The area was excavated to non-detectable organic vapor concentrations when measured with the PID. After removal of contaminated soil was completed, Environmental Works, Inc. backfilled all areas of the excavation with clean soil to match previous surface conditions and re-seeded with grass seed.

During the excavation process, impacted soil was removed from the release area and hauled to Denver Arapahoe Disposal in Aurora, Colorado for disposal. According to the scale ticket provided by Environmental Works, Inc., approximately 14.90 tons of petroleum contaminated soil was transported from the site and disposed of at Denver Arapahoe Disposal. The soil disposal ticket obtained from Environmental Works, Inc. is presented in Appendix C.

Photographs taken before, during, and after the remedial excavation activities are presented in Appendix D.

2.2 Soil Sample Analytical Results

One representative composite soil sample was collected from the petroleum release area prior to excavation activities (‘Surface Composite’). Two additional representative grab soil samples (‘S-1’ and ‘S-2’) were collected from the terminal depth of the remedial excavation floor at locations shown on Figure 3 once excavation activities had concluded. The soil samples were analyzed for the presence and concentration of TEH and naphthalene using methods described in Appendix B. Samples S-1 and S-2 were

analyzed as clearance samples to provide documentation that all soil exceeding the SDDANR ARSD Tier I Trigger/Action Levels had been removed from the release area. The laboratory analytical results for the collected samples are presented in Table 1, below. For comparison, the SDDANR ARSD Tier 1 Trigger/Action Levels are also presented with the analytical results in Table 1. The analytical laboratory report is presented in Appendix E.

Review of the analytical results for the composite sample collected prior to excavation activities indicates that the vehicle accident had resulted in petroleum impacted soil in exceedance of the respective SDDANR ARSD Tier 1 Trigger Level for TEH.

Review of the analytical results for the closure samples collected at the terminal depth of the remedial excavation indicates that all petroleum constituent concentrations were below their respective practical quantitation limits which are below the SDDANR ARSD Tier 1 Trigger/Action Levels.

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS[1]

Sample ID (Date Collected)	Depth[2]	Naphthalene	TEH
Surface Composite (06/06/25)	0.0 - 0.5	<25.0[3]	***34,000***[4]
S-1 (06/06/25)	2.0	<2.0	<40.0
S-2 (06/06/25)	1.0	<2.0	<40.0
Tier 1 Action Levels		**25**	**500**[5]

[1] All values are in mg/kg, which is equivalent to parts per million, unless otherwise noted.
[2] Depths measured in feet below ground surface.
[3] "<" denotes analyte not detected at or above the practical quantitation limit following the "less than" symbol.
[4] Concentrations in ***bold italics*** exceed Tier 1 Trigger Level.
[5] Total hydrocarbon concentration is considered a "Trigger Level" to require a more thorough evaluation of the site and is not intended to be a Tier 1 cleanup goal.

3.0 CONCLUSIONS & RECOMMENDATIONS

Upon review of the excavation field observations, organic vapor screening results, and clearance sample analytical results, it is AET's opinion that excavation activities at the site were successful in removing the petroleum impacted soil associated with the vehicular accident release along Fall River Road.

Based on this information, it is AET's opinion that no additional assessment or remediation associated with this petroleum release is warranted and the SDDANR should consider this site for closure. AET recommends that a copy of this report be submitted to the SDDANR for their review and comment.

4.0 STANDARD OF CARE

The conclusions and recommendations contained in this report represent our professional opinions. These opinions were arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

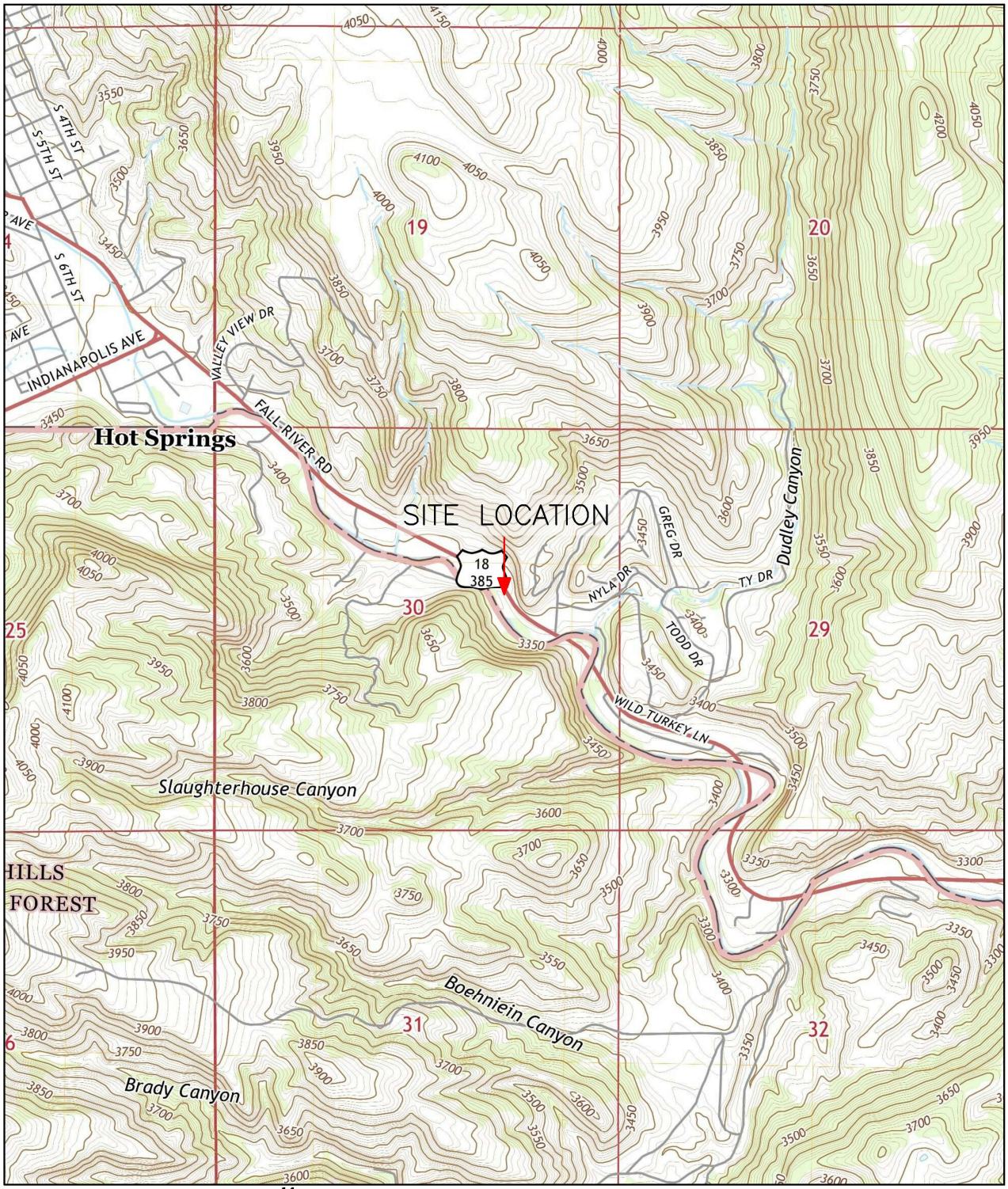
This report was prepared by:

Jeremy J. Huot, CPRR
Environmental Project Manager

This report was reviewed by:

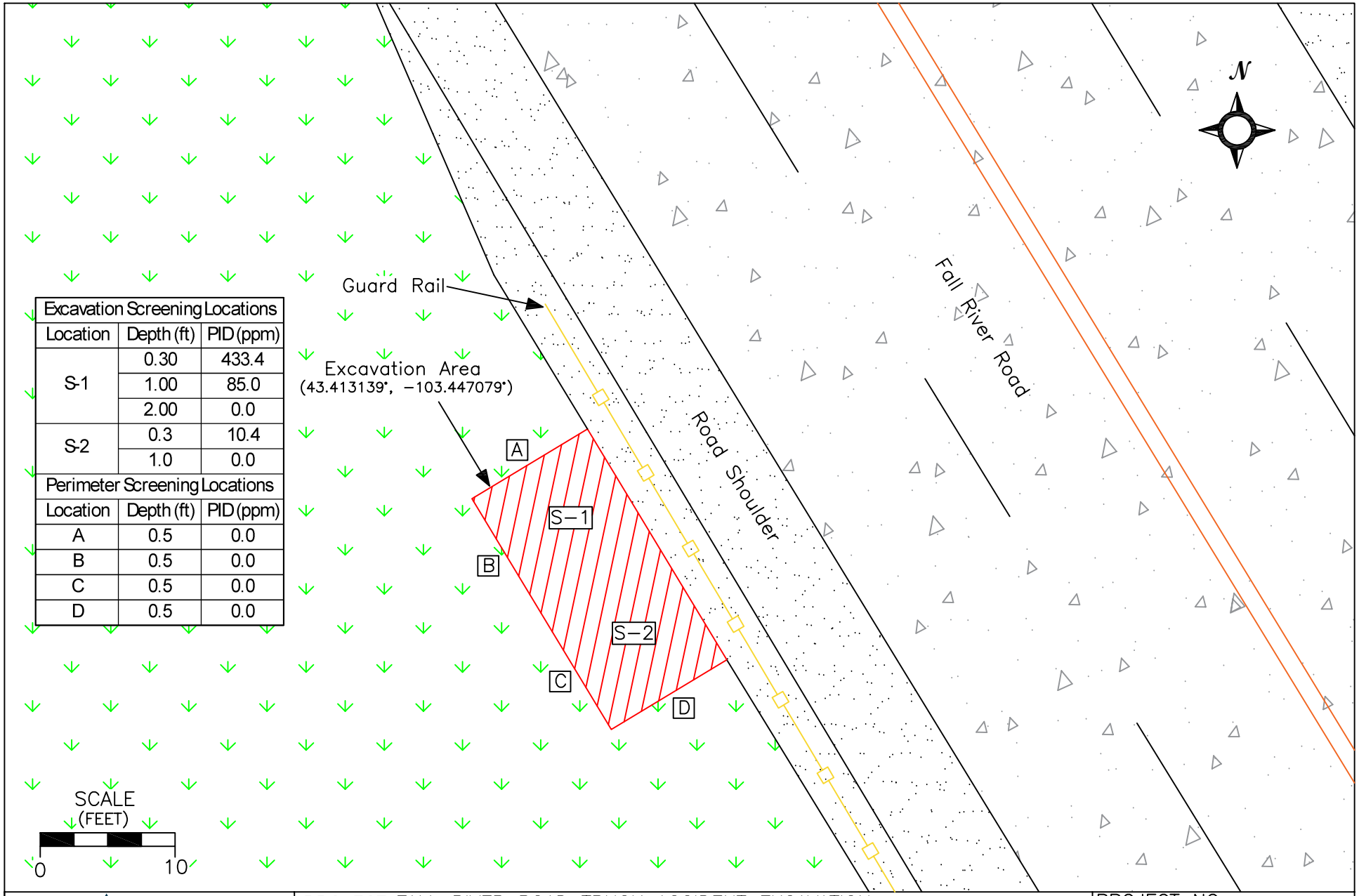
Bradley P. Bishop, CPRR
Senior Environmental Project Manager

APPENDIX A
Figures



AMERICAN ENGINEERING TESTING

PROJECT: FALL RIVER ROAD TRUCK ACCIDENT EXC. HOT SPRINGS, SOUTH DAKOTA		PROJECT NO.: P–0044795
SUBJECT: SITE LOCATION TOPO MAP	DRAWN BY: JJH	DATE: JULY 24, 2025
SCALE: 1 INCH = 2,000 FEET	REVIEWED BY: BPB	FIGURE: 1



Excavation Screening Locations		
Location	Depth (ft)	PID (ppm)
S-1	0.30	433.4
	1.00	85.0
	2.00	0.0
S-2	0.3	10.4
	1.0	0.0
Perimeter Screening Locations		
Location	Depth (ft)	PID (ppm)
A	0.5	0.0
B	0.5	0.0
C	0.5	0.0
D	0.5	0.0

AMERICAN ENGINEERING TESTING

PROJECT: FALL RIVER ROAD TRUCK ACCIDENT EXCAVATION HOT SPRINGS, SOUTH DAKOTA		PROJECT NO. P−0044795
SUBJECT: SITE SKETCH WITH ASTs, EXCAVATION EXTENTS, AND SAMPLE INFORMATION	DRAWN BY: JJH	DATE: JULY 24, 2025
SCALE: 1 INCH = 10 FEET	REVIEWED BY: BPB	FIGURE: 2

APPENDIX B
Methodologies

METHODOLOGIES

Soil Sample Screening

Soil samples are screened for the presence of organic vapors as indications of hydrocarbon contamination using an Ion Science PhoCheck TIGER photoionization detector (PID). This instrument provides readings in parts per million (ppm) equivalents of the calibration gas. The lower detectable limit is approximately 1 ppm. Erratic responses were discounted as a result of high organic vapor concentrations or conditions of elevated headspace moisture. Occasionally, vapor interference may also be encountered from the plastic sample bags utilized for headspace analysis. The PID is calibrated on-site using the concentration (as recommended by the manufacturer) of Isobutylene gas with a 10.6 eV lamp source. Headspace vapor readings are obtained by partially filling a sealable plastic sample bag. The sample bag is agitated, and the soil is allowed to warm within the sealed container. The probe of the PID is inserted through the top of the sample container to obtain a headspace reading. Concentrations are recorded as the maximum level reached after insertion of the probe.

Chemical Analysis

The soil samples collected for analysis are analyzed in a certified laboratory. The composite soil sample and the clearance soil samples were analyzed for the presence and concentration of TEH and naphthalene. The samples are analyzed according to the appropriate Environmental Protection Agency and/or California/United States Geological Survey methods for the given analytes.

Chain of Custody

Upon collection of a sample to be analyzed in the laboratory, a chain of custody log is initiated. The chain of custody log includes the following information: project name, project number, shipped by, shipped to, project manager, sampling point, location, field identification number, date taken, sample type, number of containers, analysis required and sampler's signature. The chain of custody log is shipped with the samples to the laboratory. On arrival at the laboratory, the samples are checked in and signed over to the appropriate laboratory personnel. A copy of the chain of custody log is maintained by the project manager.

Reporting

Reports are prepared that 1) present and summarize the results of the work conducted, 2) include site location and study area maps, 3) give our opinion regarding the presence of petroleum hydrocarbons and the necessity for additional work, and 4) if the results of the study warrant additional work, recommend the scope of additional work.

APPENDIX C
Soil Disposal Ticket

Denver Arapahoe Disposal
3500 S Gun Club , PO Box 460397
Aurora, CO, 80018
Ph: (720) 876-2620

Reprint
Ticket# 4781886

Customer Name	ENVIRONMENTALWORKSINC ENVIRON	Carrier	Gonzalez Trucking	
Ticket Date	06/27/2025	Vehicle#	GON 3	Volume
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0016722	
State Waste Code		Gen EPA ID	N/A	
Manifest	14123683	Grid		
Destination				
PO				
Profile	138848CO (PCS - DIESEL FUEL IMPACTED SOIL AND/OR DEBRIS CLEANUP)			
Generator	VARIOUS VARIOUS-VARIOUS VARIOUS VARIOUS VARIOUS			

	Time	Scale	Operator	Inbound		
In	06/27/2025 09:49:34	Scale 2	lfeusier		Gross	65900 lb
Out	06/27/2025 09:49:34		lfeusier		Tare	36100 lb
					Net	29800 lb
					Tons	14.90

Comments

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Pet-Tons	100	14.90	Tons				
2	ENERGY-Energy Surc	100		%				
3	WWM-P-Waste Water	100		%				

Total Fees
Total Ticket

Driver`s Signature

APPENDIX D
Photographs

PHOTOGRAPHS



Photo 1:	**View of petroleum impacted area prior to remedial excavation activities.**
Photo 2:	**View of petroleum impacted area prior to remedial excavation activities.**



PHOTOGRAPHS



Photo 3:	**View of petroleum impacted area prior to remedial excavation activities.**
Photo 4:	**View of petroleum impacted area prior to remedial excavation activities.**



PHOTOGRAPHS



Photo 5:	**View of remedial excavation activities in progress.**
Photo 6:	**View of petroleum impacted stained soil profile within the excavation area.**



PHOTOGRAPHS



Photo 7:	**View of remedial excavation activities in progress.**
Photo 8:	**View of remedial excavation activities in progress.**



PHOTOGRAPHS



Photo 9:	**View of remedial excavation activities in progress.**
Photo 10:	**View of formerly impacted area at completion of the remedial excavation activities.**



PHOTOGRAPHS



Photo 11:	**Viewing northeast of formerly impacted area at completion of the remedial excavation and backfilling activities.**
Photo 12:	**Viewing north of formerly impacted area at completion of the remedial excavation and backfilling activities.**



APPENDIX E
Analytical Laboratory Report

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

REVIEWED
By Jeremy Huot at 11:01 am, Jul 24, 2025

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Sample Site:	Surface Composite
Project Name:	Fall River Road Remedial Exc.
Project Number:	P-0044795
Sampled:	06/26/25 at 11:30 AM by Jeremy Huot
Sample Matrix:	Soil
Lab ID#:	20250627541
Received:	06/27/25 at 09:20 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst/Date
Semi-Volatile							
Naphthalene-soc	< 25.0	mg/kg	200	13.9	100	SW846 8100-S	SAC 07/08/25
TPH(Total Extractable Hydrocarbons)	34000	mg/kg	200	258	2000	SW846 8015B-S	SAC 07/08/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst/Date
Surrogate Recovery-SV					
Ortho-Terphenyl	0.00%	(63.09) - (146.1)	1	SW846 8015-S QC	SAC 07/08/25
	- D-Surrogate not calculated due to dilution.				

Notes:
Naphthalene reported below PQL but above the MDL.

Report Approved By:



Report Approved On: 7/24/2025 9:26:44 AM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	S-1
Project Name:	Fall River Road Remedial Exc.
Project Number:	P-0044795
Sampled:	06/26/25 at 02:00 PM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250627542
Received:	06/27/25 at 09:20 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Semi-Volatile								
Naphthalene-soc	< 2.00	mg/kg	4	0.279	2.00	SW846 8100-S	SAC	07/08/25
TPH(Total Extractable Hydrocarbons)	< 40.0	mg/kg	4	5.16	40.0	SW846 8015B-S	SAC	07/08/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-SV						
Ortho-Terphenyl	106.7 %	(63.09) - (146.1)	1	SW846 8015-S QC	SAC	07/08/25

Report Approved By:



Report Approved On: 7/24/2025 10:43:36 AM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Sample Site:	S-2
Project Name:	Fall River Road Remedial Exc.
Project Number:	P-0044795
Sampled:	06/26/25 at 01:00 PM by Jeremy Huot
Sample Matrix:	Soil

AET
1745 SAMCO ROAD
RAPID CITY, SD 57702

Lab ID#:	20250627543
Received:	06/27/25 at 09:20 AM by Shela Carpenter
Account:	W1202 - AET - Rapid City

Parameter	Result	Units	DF	MDL	PQL	Method	Analyst	Date
Semi-Volatile								
Naphthalene-soc	< 2.00	mg/kg	4	0.279	2.00	SW846 8100-S	SAC	07/08/25
TPH(Total Extractable Hydrocarbons)	< 40.0	mg/kg	4	5.16	40.0	SW846 8015B-S	SAC	07/08/25

Quality Control Data

Parameter	Result	Limits	DF	Method	Analyst	Date
Surrogate Recovery-SV						
Ortho-Terphenyl	104.6 %	(-12.37) - (205.0)	1	SW846 8015-S QC	SAC	07/11/25

Report Approved By:



Report Approved On: 7/24/2025 10:43:36 AM

MIDCONTINENT
TESTING LABORATORIES, INC.

2381 South Plaza Drive P.O. Box 3388 Rapid City, SD 57709
(605) 348-0111 -- www.thechemistrylab.com

Lab Numbers: 20250627541 - 20250627543

QC Sample Report

Parameter	Lab#	QC Value	Smp Value	Spike	DF	Result	Limits	Method
Spike								
TPH-Diesel	0617542	154	< 10.0	200	1	77.1 %	(55.53) - (105.3)	SW846 8015B-S
Matrix Spike Duplicate								
TPH-Diesel	0617542	164	154		1	6.28%	(-26.18) - (25.59)	SW846 8015B-S
Initial Calibration Verification								
TPH-Diesel		1100	1000		1	10.1 %	(-27.66) - (28.92)	SW846 8015B-S
Continuing Calibration Verification								
Naphthalene-soc		25.9	25.0		1	3.60%	(-33.71) - (31.31)	SW846 8100-S
Naphthalene-soc		23.8	25.0		1	-4.80%	(-33.50) - (30.70)	SW846 8100-S
TPH-Diesel		947	1000		1	-5.30%	(-18.44) - (37.31)	SW846 8015B-S
TPH-Diesel		1010	1000		1	0.600%	(-19.98) - (36.63)	SW846 8015B-S
Lab Control Spike								
Naphthalene-soc		1.75	0.00	2.50	1	70.0 %	(41.70) - (100.7)	SW846 8100-S
TPH-Diesel		158	0.00	200	1	79.1 %	(68.46) - (102.2)	SW846 8015B-S
Lab Reagent Blank								
Naphthalene-soc		0.00	0.00		1	0	(0.000) - (0.000)	SW846 8100-S
TPH-Diesel		0.00	0.00		1	0	(-6.943) - (9.491)	SW846 8015B-S

Approved By: 

Approved On: 07/17/2025 12:26 PM

AMERICAN ENGINEERING TESTING, INC.

☐ St. Paul Office
550 Cleveland Ave. N.
St. Paul, MN 55114
651-659-9001
651-659-1379 (fax)

☒ OTHER Rapid City Office

ADDRESS: 1745 Samco Rd
Rapid City, SD

PHONE: 605-388-0029

16283

PAGE 1 OF 1

AET PROJECT NUMBER P-0044795

PROJECT NAME/LOCATION Fall River Rd. Remedial Exc.

AET PROJECT MANAGER Jeremy Huot

SEND REPORT TO J. Huot & B. Bishop

SAMPLED BY (PRINT) Jeremy Huot

SAMPLER SIGNATURE

REQUESTED TURNAROUND TIME: ☒ NORMAL ☐ RUSH

DATE NEEDED BY:

ITEM#	SAMPLE DESCRIPTION	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	MeOH	HCL	H_2SO_4	HNO_3	FIELD FILTERED Y/N	ANALYSIS: TEH, Naphthalene	REMARKS
1	Surface Composite	6/26/25	11:30	Soil	1	X					N	X	20250627541
2	S-1	↓	14:00	Soil	1	X					N	X	542
3	S-2	↓	13:00	Soil	1	X					N	X	543

NOTE: 3.1°C

ITEM NUMBER	RELINQUISHED BY/AFFILIATION	ACCEPTED BY/AFFILIATION	DATE	TIME
1-3	/AET		6/27/25	9:20

MIDCONTINENT TESTING LABORATORIES

SAMPLE RECEIPT CHECKLIST

Company Name: AET
Date/Time Received: 06/27/2025 (Date) / 09:20 (Time)
Project: Fall River Road Remedial Exc.
Received by: SAC
Lab Number(s): 20250627541-543
Carrier Name: Hand Delivered

UNPACKING

Yes	No		Initials
☑	☐	1. Shipping container in good condition?	KW
☑	☐	2. Custody seals present on shipping container? Condition: Intact ☐ Broken ☐	
☑	☐	3. Ice / Blue Ice (circle one) present in shipping container? Container(s) Temp. 1. 3.1 °C 2. _____ 3. _____ 4. _____	
☐	☑	4. Bottles broken and/or leaking? (Photograph broken bottles.)	
☑	☐	5. Custody seals on sample bottles? Condition: Intact ☐ Broken ☐	

LABELING

Yes	No		Initials
☑	☐	6. Chain of custody Present?	KW
☑	☐	7. Chain of custody includes signatures, dates, and times when relinquished and received?	
☑	☐	8. Chain of custody agrees with bottle count?	
☑	☐	9. Chain of custody agrees with labels?	
☑	☐	10. Samples received within holding times?	
☑	☐	11. Samples in proper container?	
☑	☐	12. Sufficient sample volume for indicated tests?	

PRESERVATIVE

Yes	No		Initials	Yes	No		Initials
☐	☐	13. Metals bottle(s) pH < 2?		☐	☐	17. TOC bottle(s) pH < 2?	
☐	☐	14. Nutrient bottle(s) pH < 2?		☐	☐	18. Oil & Grease bottle(s) pH < 2?	
☐	☐	15. Cyanide bottle(s) pH > 12?		☐	☐	19. Volatiles pH < 2?	
☐	☐	16. Sulfide bottle(s) pH > 9?					

COMMENTS: