

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nJK1534846034
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EPIC Energy L.L.C	OGRID 372834
Contact Name Vanessa Fields	Contact Telephone 505-787-9100
Contact email vanessa@walsheng.net	Incident # (assigned by OCD) nJK1534846034
Contact mailing address 7415 East Main Street Farmington, NM 87402	

Location of Release Source

Latitude 36.2189827 Longitude -107.577446
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Federal I #009	Site Type Federal I5, I8, I9 Tank Battery
Date Release Discovered 12/8/2015	API# (if applicable) 30-043-20929

Unit Letter	Section	Township	Range	County
B	21	23N	07W	Sandoval

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 20 BBLS	Volume Recovered (bbls) 20BBL
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Historic 20 BBL release acquired from previous operator. 20BBL spill reported inside of berm due to equipment failure.

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Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Vanessa Fields Title: Regulatory Compliance Manager

Signature: _____ Date: 1/5/2021

email: vanessa@walsheng.net Telephone: 505-787-9100

OCD Only

Received by: _____ Date: _____

Incident ID	nJK1534846034
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft Bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☐ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody (See previously submitted delineation report in well file)

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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State of New Mexico

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Oil Conservation Division

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Printed Name: Vanessa Fields _____ Title: __Regulatory Compliance Manager _____

Signature: _____ Date: _1/5/2021_____

email: _vanessa@walsheng.net_____ Telephone: __505-787-9100_____

OCD Only

Received by: _____ Jocelyn Harimon _____ Date: _02/28/2023_____

Incident ID	nJK1534846034
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Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Vanessa Fields Title: Regulatory Compliance Manager

Signature: _____ Date: 1/5/2021

email: vanessa@walsheng.net Telephone: 505-787-9100

OCD Only

Received by: Jocelyn Harimon Date: 02/28/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 04/27/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv













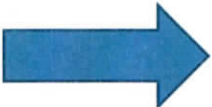


30-043-20929 FEDERAL I #009**INC # nJK1534846034****Remediation Summary**

On

Sample Table

Sample Date	Sample Area	8021 BTEX	Benzene	8015 (GRO/DRO/ORO)	Chlorides
8/27/2020	South Wall	Non-Detect	Non-Detect	Non-Detect	Non-Detect
8/27/2020	East Wall	Non-Detect	Non-Detect	Non-Detect	Non-Detect
8/27/2020	Base	Non-Detect	Non-Detect	Non-Detect	Non-Detect
8/27/2020	North Wall	Non-Detect	Non-Detect	DRO 60.9 mg/kg ORO non-detect GRO non-detect	Non-Detect
8/27/2020	West Wall	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
 ≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



Analytical Report

Report Summary

Client: Epic Energy

Chain Of Custody Number:

Samples Received: 10/18/2018 1:27:00PM

Job Number: 18012-0004

Work Order: P810099

Project Name/Location: Soil Sampling @ Federal I
5,8,9 Tank Battery

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', written over a horizontal line.

Date: 10/26/18

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read 'Tim Cain', written over a horizontal line.

Date: 10/26/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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Ph (970) 259-0615 Fx (800) 362-1879

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laboratory: envirotech inc. com



Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Center @ 2' bgs	P810099-01A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
	P810099-01B	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
West @ 2' bgs	P810099-02A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
	P810099-02B	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
West @ 4.5' bgs	P810099-03A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
	P810099-03B	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
Center @ 4.5' bgs	P810099-04A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
	P810099-04B	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
East @ 2' bgs	P810099-05A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
East @ 4.5' bgs	P810099-06A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
South @ 2' bgs	P810099-07A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
South @ 4.5' bgs	P810099-08A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
North @ 2' bgs	P810099-09A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.
North @ 4.5' bgs	P810099-10A	Soil	10/16/18	10/18/18	Glass Jar, 4 oz.

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Laboratory, envirotech-inc.com



Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Center @ 2' bgs
P810099-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	653	25.0	mg/kg	1	1843003	10/22/18	10/23/18	EPA 8015D	
Oil Range Organics (C28-C40+)	68.5	50.0	mg/kg	1	1843003	10/22/18	10/23/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		134 %		50-200	1843003	10/22/18	10/23/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	44.4	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	

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18015101.enr.us@envirotech.com



Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

West @ 2' bgs
P810099-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843003	10/22/18	10/23/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/23/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		130 %		50-200	1843003	10/22/18	10/23/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	

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Laboratory: envirotech-inc.com



Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**West @ 4.5' bgs
P810099-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	544	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Toluene	248	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Ethylbenzene	493	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
p,m-Xylene	1600	200	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
o-Xylene	654	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Total Xylenes	2260	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Total BTEX	3540	100	ug/kg	1	1842033	10/19/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1842033	10/19/18	10/25/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	21.0	20.0	mg/kg	1	1842033	10/19/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	6890	250	mg/kg	10	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	528	500	mg/kg	10	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %		50-150	1842033	10/19/18	10/25/18	EPA 8015D	
Surrogate: n-Nonane		297 %		50-200	1843003	10/22/18	10/25/18	EPA 8015D	Surr2

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	
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Epic Energy	Project Name:	Soil Sampling @ Federal 1 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**Center @ 4.5' bgs
P810099-04 (Solid)**

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	3740	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Toluene	11200	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Ethylbenzene	2180	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
p,m-Xylene	7460	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
o-Xylene	3050	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Total Xylenes	10500	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Total BTEX	27700	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	103	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D
Diesel Range Organics (C10-C28)	17800	2500	mg/kg	100	1843003	10/22/18	10/25/18	EPA 8015D
Oil Range Organics (C28-C40+)	ND	5000	mg/kg	100	1843003	10/22/18	10/25/18	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D
Surrogate: n-Nonane		%		50-200	1843003	10/22/18	10/25/18	EPA 8015D Surr2
Anions by 300.0/9056A								
Chloride	71.3	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**East @ 2' bgs
P810099-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	213	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		138 %		50-200	1843003	10/22/18	10/25/18	EPA 8015D	

Anions by 300.0/9056A

Chloride	193	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	
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Epic Energy	Project Name:	Soil Sampling @ Federal 1 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**East @ 4.5' bgs
P810099-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.5 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		135 %		50-200	1843003	10/22/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	214	20.0	mg/kg	1	1843013	10/24/18	10/24/18	EPA 300.0/9056A	

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Epic Energy	Project Name:	Soil Sampling @ Federal 1 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**South @ 2' bgs
P810099-07 (Solid)**

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatiles Organics by EPA 8021								
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D
Diesel Range Organics (C10-C28)	68.1	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.3 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D
Surrogate: n-Nonane		137 %		50-200	1843003	10/22/18	10/25/18	EPA 8015D
Anions by 300.0/9056A								
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/25/18	EPA 300.0/9056A

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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Soil Sampling @ Federal I 5,8,9 Tank Battery Project Number: 18012-0004 Project Manager: Felipe Aragon	Reported: 10/26/18 16:47
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**South @ 4.5' bgs
P810099-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatle Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	82.6	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.4 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		137 %		50-200	1843003	10/22/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/25/18	EPA 300.0/9056A	

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Envirotech, Inc.
18012-0004



Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**North @ 2' bgs
P810099-09 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D	
Surrogate: n-Nonane		139 %		50-200	1843003	10/22/18	10/25/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/25/18	EPA 300.0/9056A	

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

North @ 4.5' bgs
P810099-10 (Solid)

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Toluene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Ethylbenzene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
p,m-Xylene	ND	200	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
o-Xylene	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Total Xylenes	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Total BTEX	ND	100	ug/kg	1	1842033	10/19/18	10/23/18	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1842033	10/19/18	10/23/18	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1842033	10/19/18	10/23/18	EPA 8015D
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843003	10/22/18	10/25/18	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.4 %		50-150	1842033	10/19/18	10/23/18	EPA 8015D
Surrogate: n-Nonane		139 %		50-200	1843003	10/22/18	10/25/18	EPA 8015D
Anions by 300.0/9056A								
Chloride	ND	20.0	mg/kg	1	1843013	10/24/18	10/25/18	EPA 300.0/9056A

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Envirotech, Inc.
18012-0004-0000



Epic Energy	Project Name:	Soil Sampling @ Federal 15,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1842033 - Purge and Trap EPA 5030A

Blank (1842033-BLK1)				Prepared: 10/19/18 1 Analyzed: 10/23/18 0						
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8410		"	8000		105	50-150			

LCS (1842033-BS1)				Prepared: 10/19/18 1 Analyzed: 10/23/18 0						
Benzene	5450	100	ug/kg	5000		109	70-130			
Toluene	5480	100	"	5000		110	70-130			
Ethylbenzene	5550	100	"	5000		111	70-130			
p,m-Xylene	11300	200	"	10000		113	70-130			
o-Xylene	5490	100	"	5000		110	70-130			
Total Xylenes	16800	100	"	15000		112	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8440		"	8000		106	50-150			

Matrix Spike (1842033-MS1)				Source: P810099-01		Prepared: 10/19/18 1 Analyzed: 10/23/18 0				
Benzene	5340	100	ug/kg	5000	ND	107	54.3-133			
Toluene	5320	100	"	5000	ND	106	61.4-130			
Ethylbenzene	5490	100	"	5000	ND	110	61.4-133			
p,m-Xylene	11100	200	"	10000	ND	111	63.3-131			
o-Xylene	5420	100	"	5000	ND	108	63.3-131			
Total Xylenes	16500	100	"	15000	ND	110	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8470		"	8000		106	50-150			

Matrix Spike Dup (1842033-MSD1)				Source: P810099-01		Prepared: 10/19/18 1 Analyzed: 10/25/18 0				
Benzene	5220	100	ug/kg	5000	ND	104	54.3-133	2.24	20	
Toluene	5220	100	"	5000	ND	104	61.4-130	1.91	20	
Ethylbenzene	5360	100	"	5000	ND	107	61.4-133	2.39	20	
p,m-Xylene	10900	200	"	10000	ND	109	63.3-131	2.03	20	
o-Xylene	5280	100	"	5000	ND	106	63.3-131	2.69	20	
Total Xylenes	16200	100	"	15000	ND	108	63.3-131	2.25	20	
Surrogate: 4-Bromochlorobenzene-PID	8210		"	8000		103	50-150			

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1842033 - Purge and Trap EPA 5030A										
Blank (1842033-BLK1)				Prepared: 10/19/18 Analyzed: 10/23/18 0						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		"	8.00		98.7	50-150			
LCS (1842033-BS2)				Prepared: 10/19/18 Analyzed: 10/23/18 0						
Gasoline Range Organics (C6-C10)	50.6	20.0	mg/kg	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.98		"	8.00		99.7	50-150			
Matrix Spike (1842033-MS2)				Source: P810099-01 Prepared: 10/19/18 Analyzed: 10/23/18 0						
Gasoline Range Organics (C6-C10)	57.4	20.0	mg/kg	50.0	ND	115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			
Matrix Spike Dup (1842033-MSD2)				Source: P810099-01 Prepared: 10/19/18 Analyzed: 10/23/18 0						
Gasoline Range Organics (C6-C10)	57.1	20.0	mg/kg	50.0	ND	114	70-130	0.514	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		"	8.00		99.0	50-150			

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1843003 - DRO Extraction EPA 3570

Blank (1843003-BLK1)				Prepared: 10/22/18 0 Analyzed: 10/23/18 2						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	61.3		"	50.0		123	50-200			
LCS (1843003-BS1)				Prepared: 10/22/18 0 Analyzed: 10/23/18 2						
Diesel Range Organics (C10-C28)	458	25.0	mg/kg	500		91.6	38-132			
Surrogate: n-Nonane	59.3		"	50.0		119	50-200			
Matrix Spike (1843003-MS1)				Source: P810099-01		Prepared: 10/22/18 0 Analyzed: 10/23/18 2				
Diesel Range Organics (C10-C28)	1140	25.0	mg/kg	500	653	96.6	38-132			
Surrogate: n-Nonane	64.2		"	50.0		128	50-200			
Matrix Spike Dup (1843003-MSD1)				Source: P810099-01		Prepared: 10/22/18 0 Analyzed: 10/23/18 2				
Diesel Range Organics (C10-C28)	1170	25.0	mg/kg	500	653	103	38-132	2.59	20	
Surrogate: n-Nonane	65.6		"	50.0		131	50-200			

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 Laboratory: envirotech.com



Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	10/26/18 16:47
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1843013 - Anion Extraction EPA 300.0/9056A

Blank (1843013-BLK1)				Prepared: 10/24/18 0 Analyzed: 10/24/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1843013-BS1)				Prepared: 10/24/18 0 Analyzed: 10/24/18 1						
Chloride	258	20.0	mg/kg	250		103	90-110			
Matrix Spike (1843013-MS1)				Source: P810092-01 Prepared: 10/24/18 0 Analyzed: 10/24/18 1						
Chloride	259	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (1843013-MSD1)				Source: P810092-01 Prepared: 10/24/18 0 Analyzed: 10/24/18 1						
Chloride	259	20.0	mg/kg	250	ND	104	80-120	0.0926	20	

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	
7415 East Main	Project Number:	18012-0004	Reported:
Farmington NM, 87402	Project Manager:	Felipe Aragon	10/26/18 16:47

Notes and Definitions

Surr2	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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Project Information

Chain of Custody

Page 1 of 1

Client: Epic Energy Project: Soil Sampling at Arden I S, D, & Tank Battery Project Manager: F. Aragon Address: City, State, Zip: Phone: Email: Gcrabtree Admin Bhall Faragon				Report Attention Report due by: Email: Address: City, State, Zip: Phone:				Lab Use Only Lab WO#: P810044 Job Number: 1806-05-4 Analysis and Method 8015 DHO/GRO/23 B260 GPA 2189 RCRA 8 Metals TDS/TSS COD Oil and Grease 1664 Chl-a BOD5				TAT 1D 3D		EPA Program RCRA CWA SDWA NM CO UT AZ X B4			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	8015 DHO/GRO/23	B260	GPA 2189	RCRA 8 Metals	TDS/TSS	COD	Oil and Grease	1664	Chl-a	BOD5	Remarks	
1130	10/10/18	S	2	Center @ 2' bgs	1	X								X	X	2-407 jar	
1440	10/10/18	S	2	West @ 2' bgs	2												
1500	10/10/18	S	2	West @ 4.5' bgs	3												
1200	10/10/18	S	2	Center @ 4.5' bgs	4												
1335	10/10/18	S	1	East @ 2' bgs	5											1-407 jar	
1338	10/10/18	S	1	East @ 4.5' bgs	6												
1400	10/10/18	S	1	South @ 2' bgs	7												
1400	10/10/18	S	1	South @ 4.5' bgs	8												
1445	10/10/18	S	1	North @ 2' bgs	9												
1740	10/10/18	S	1	North @ 4.5' bgs	10												
Additional Instructions: I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>B. Aragon Hall</u> Samples requiring thermal preservation must be received on the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.																	
Relinquished by: (Signature) <u>B. Aragon Hall</u>		Date 10/18/18	Time 1327	Received by: (Signature) <u>A. V.</u>		Date 10/10/18	Time 1327	Lab Use Only Received on ice: <u>Y/N</u> T1 T2 T3 AVG Temp °C: <u>10</u>									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

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SOIL BORING
LITHOLOGY LOG

SB Center

DEPTH (FEET)	TIME	USCS	SAMPLE TYPE	HEADSPACE (FWD)	LITHOLOGY	SAMPLE DESCRIPTION	DEPTH (FEET)
10/16/03	1746	Sm	Hand Auger			light brown, silty sand, no odor	
1		sm				light brown silty sand no odor	
2		sm				light brown silty sand	
3		sm	65 289			25' slight hydrocarbon odor	
4		sm				light brown silty sand w/ some black discoloration, hydrocarbon odor	
5		sm	65 289			light brown silty sand w/ a lot of black discoloration, strong hydrocarbon odor	
6		sm	65 289			light brown silty sand w/ greyish black discoloration, hydrocarbon odor	
7		sm	65 289			light brown silty sand w/ black discoloration, hydrocarbon odor	
8		sm	65 289			greyish brown silty sand hydrocarbon odor	

bore:

DRILLER: SHOPERATOR: BCHELPER: BCDRILLING COMPANY: EnvirotechDRILLING METHOD:

Note: SS = Split Spoon A = Auger c5 = 5 foot composite from air cuttings

BIT SIZE: TOTAL BORING DEPTH: 25'DATE STARTED: 10/16/03SAMPLER TYPE: LOCATION: SB, 9ELEVATION: (30.218) - 107.577 (ft)DATE COMPLETED: 10/16/03GEOLOGIST: **ENVIROTECH INC.**ENVIRONMENTAL SCIENTISTS & ENGINEERS
5786 U.S. HIGHWAY 84
FARMINGTON, NEW MEXICO 87401
(505) 832-0815
www.envirotech.com

REVISIONS

BY DATE
BY DATE JOB # DATE DRAWN PAGE SCALE APPROVED OF

SB Conter

Core No. 64 BIT SIZE: _____ LOCATION: Tank Bottom Federal 1
 DRILLER: _____ TOTAL BORING DEPTH: 10.5' ELEVATION: 50.9
 OPERATOR: _____ DATE STARTED: 10/16/18 DATE COMPLETED: 11/18/18
 DRILLING COMPANY: Gunnick SAMPLER TYPE: _____ GEOLOGIST: _____
 DRILLING METHOD: _____
 Note: SS = Split Spoon A = Auger c5 = 5 foot composite from air cuttings

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SB *West*

DRILLER: BC BIT SIZE: _____ LOCATION: Section 5 S1 D1 9
 HELPER: BC TOTAL BORING DEPTH: 9.0' ELEVATION: (36.518000, -107.577740)
 DRILLING COMPANY: Smarttech DATE STARTED: 10/16/10 DATE COMPLETED: 11/8/10
 DRILLING METHOD: _____ SAMPLER TYPE: _____ GEOLOGIST: _____
 Note: SS = Split Spoon A = Auger c5 = 5 foot composite from air cuttings

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OF

SOIL BORING
LITHOLOGY LOGSB East

DEPTH (FEET)	TIME	USCS	SAMPLE TYPE	HEADSPACE (PPH)	LITHOLOGY	SAMPLE DESCRIPTION	DEPTH (FEET)
Hand auger 10/8/13		sm				light brown sand w/ some greenish discoloration no odor	
1							
2		sm		12.0		light brownish grey w/ slight hydrocarbon odor	
3		sm				light brownish green sand w/ slight hydrocarbon odor	
4		sm		12.4		light greyish sand w/ hydrocarbon odor	
factlog 11/8/13							
5		sm				Test pit moved 7 feet outside bore in order to find uncontaminated soil. light brown sand no odor	
6		sm		0.0		light brown sand no odor	

Driller: EL
 Helper: EL

BIT SIZE: _____
 TOTAL BORING DEPTH: 6'0"
 DATE STARTED: 10/16/13
 SAMPLER TYPE: _____

LOCATION: (36.218862, -107.573565)
 ELEVATION: _____
 DATE COMPLETED 11/8/13
 GEOLOGIST: _____

DRILLING COMPANY: _____

DRILLING METHOD: _____

Note: SS = Split Spoon

A = Auger

c5 = 5 foot

composite from air cuttings

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DATE _____

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OF _____

SB North

DRILLER: Lu BIT SIZE: _____ LOCATION: 36. 21804 - 107.57764
 HELPER: BC TOTAL BORING DEPTH: _____ ELEVATION: _____
 DRILLING COMPANY: _____ DATE STARTED: 12/16/18 DATE COMPLETED 12/16/18
 DRILLING METHOD: _____ SAMPLER TYPE: _____ GEOLOGIST: _____
 Note: SS = Split Spoon A = Auger c5 = 5 foot composite from air cuttings

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Inglis

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SOIL BORING
LITHOLOGY LOG

SB South

(Walsh engineering
request)

DEPTH (FEET)	TIME	USCS	SAMPLE TYPE	HEADSPACE (PPH)	LITHOLOGY	SAMPLE DESCRIPTION	DEPTH (FEET)
		SM	back hoe			Very fine light brown silty sand	
1		SM				Very fine light brown silty sand	
2		SM				light brown silty sand hard to dig w/ backhoe	
3		SM				light brown fine silty sand hard to dig w/ backhoe	
4		SM				light brown fine silty sand hard to dig	
5		SM				light brown fine silty sand hard to dig	
6		SM				light brown silty sand hard to dig no ad	
		SM	0-2				
7							

Driller: SM
 Helper: bc

BIT SIZE: _____
 TOTAL BORING DEPTH: 6.5'
 DATE STARTED: 11/8/19
 SAMPLER TYPE: _____

LOCATION: (36.21872, -107.57727)
 ELEVATION: _____
 DATE COMPLETED 11/8/19
 GEOLOGIST: _____

DRILLING COMPANY: _____
 DRILLING METHOD: _____

Note: SS = Split Spoon A = Auger c5 = 5 foot composite from air cuttings

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 BY _____ DATE _____

JOB # _____

DATE _____ DRAWN _____
 SCALE _____ APPROVED _____

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 OF _____



Analytical Report

Report Summary

Client: Epic Energy

Chain Of Custody Number:

Samples Received: 11/9/2018 9:59:00AM

Job Number: 18012-0004

Work Order: P811031

Project Name/Location: Soil Sampling @ Federal I
5,8,9 Tank Battery

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', written over a horizontal line.

Date: 11/15/18

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read 'Tim Cain', written over a horizontal line.

Date: 11/15/18

Tim Cain, Project Manager



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Bottom	P811031-01A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-01B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
West Wall	P811031-02A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-02B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
South Bottom	P811031-03A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-03B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
South Wall	P811031-04A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-04B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
East Bottom	P811031-05A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-05B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
East Wall	P811031-06A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-06B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
Center	P811031-07A	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.
	P811031-07B	Soil	11/08/18	11/09/18	Glass Jar, 4 oz.

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**West Bottom
P811031-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		88.3 %		50-200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	

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Epic Energy	Project Name:	Soil Sampling @ Federal 15,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**West Wall
P811031-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %		50-150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		82.9 %		50-200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**South Bottom
P811031-03 (Solid)**

F811051-03 (Solid)									
Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		84.3 %		50-200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

**South Wall
P811031-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.0 %		50-150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %		50-150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		82.2 %		50-200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	

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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Soil Sampling @ Federal I 5,8,9 Tank Battery Project Number: 18012-0004 Project Manager: Felipe Aragon	Reported: 11/15/18 15:24
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**East Bottom
P811031-05 (Solid)**

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		99.1 %		50-150	1846004	11/12/18	11/13/18	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1846004	11/12/18	11/13/18	EPA 8015D
Surrogate: n-Nonane		82.1 %		50-200	1846017	11/13/18	11/13/18	EPA 8015D
Anions by 300.0/9056A								
Chloride	ND	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A

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Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

East Wall
P811031-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %		50-150	1846004	11/12/18	11/13/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1846017	11/13/18	11/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1846004	11/12/18	11/13/18	EPA 8015D	
Surrogate: n-Nonane		82.1 %		50-200	1846017	11/13/18	11/13/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	20.7	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A	

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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Soil Sampling @ Federal I 5,8,9 Tank Battery Project Number: 18012-0004 Project Manager: Felipe Aragon	Reported: 11/15/18 15:24
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Center
P811031-07 (Solid)

Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Volatile Organics by EPA 8021								
Benzene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Toluene	ND	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Ethylbenzene	243	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
p,m-Xylene	1020	200	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
o-Xylene	261	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Total Xylenes	1280	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Total BTEX	1530	100	ug/kg	1	1846004	11/12/18	11/13/18	EPA 8021B
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1846004	11/12/18	11/13/18	EPA 8021B
Nonhalogenated Organics by 8015								
Gasoline Range Organics (C6-C10)	33.3	20.0	mg/kg	1	1846004	11/12/18	11/13/18	EPA 8015D
Diesel Range Organics (C10-C28)	2460	125	mg/kg	5	1846017	11/13/18	11/13/18	EPA 8015D
Oil Range Organics (C28-C40+)	279	250	mg/kg	5	1846017	11/13/18	11/13/18	EPA 8015D
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %		50-150	1846004	11/12/18	11/13/18	EPA 8015D
Surrogate: n-Nonane		108 %		50-200	1846017	11/13/18	11/13/18	EPA 8015D
Anions by 300.0/9056A								
Chloride	40.9	20.0	mg/kg	1	1846006	11/12/18	11/12/18	EPA 300.0/9056A

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Epic Energy 7415 East Main Farmington NM, 87402	Project Name: Soil Sampling @ Federal 1 5,8,9 Tank Battery Project Number: 18012-0004 Project Manager: Felipe Aragon	Reported: 11/15/18 15:24
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Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1846004 - Purge and Trap EPA 5030A

Blank (1846004-BLK1)				Prepared: 11/12/18 0 Analyzed: 11/13/18 2						
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8030		"	8000		100	50-150			

LCS (1846004-BS1)				Prepared: 11/12/18 0 Analyzed: 11/13/18 0						
Benzene	4800	100	ug/kg	5000		95.9	70-130			
Toluene	4890	100	"	5000		97.7	70-130			
Ethylbenzene	4970	100	"	5000		99.4	70-130			
p,m-Xylene	10200	200	"	10000		102	70-130			
o-Xylene	4970	100	"	5000		99.4	70-130			
Total Xylenes	15200	100	"	15000		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8110		"	8000		101	50-150			

Matrix Spike (1846004-MS1)				Source: P811031-01		Prepared: 11/12/18 0 Analyzed: 11/13/18 0				
Benzene	4330	100	ug/kg	5000	ND	86.6	54.3-133			
Toluene	4410	100	"	5000	ND	88.2	61.4-130			
Ethylbenzene	4470	100	"	5000	ND	89.5	61.4-133			
p,m-Xylene	9210	200	"	10000	ND	92.1	63.3-131			
o-Xylene	4490	100	"	5000	ND	89.8	63.3-131			
Total Xylenes	13700	100	"	15000	ND	91.3	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8080		"	8000		101	50-150			

Matrix Spike Dup (1846004-MSD1)				Source: P811031-01		Prepared: 11/12/18 0 Analyzed: 11/13/18 0				
Benzene	4420	100	ug/kg	5000	ND	88.3	54.3-133	2.00	20	
Toluene	4470	100	"	5000	ND	89.4	61.4-130	1.41	20	
Ethylbenzene	4510	100	"	5000	ND	90.1	61.4-133	0.731	20	
p,m-Xylene	9240	200	"	10000	ND	92.4	63.3-131	0.336	20	
o-Xylene	4480	100	"	5000	ND	89.6	63.3-131	0.208	20	
Total Xylenes	13700	100	"	15000	ND	91.5	63.3-131	0.158	20	
Surrogate: 4-Bromochlorobenzene-PID	8060		"	8000		101	50-150			

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Epic Energy	Project Name:	Soil Sampling @ Federal 1 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1846004 - Purge and Trap EPA 5030A										
Blank (1846004-BLK1)				Prepared: 11/12/18 0 Analyzed: 11/12/18 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.38		"	8.00		105	50-150			
LCS (1846004-BS2)				Prepared: 11/12/18 0 Analyzed: 11/13/18 0						
Gasoline Range Organics (C6-C10)	43.4	20.0	mg/kg	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		"	8.00		106	50-150			
Matrix Spike (1846004-MS2)				Source: P811031-01 Prepared: 11/12/18 0 Analyzed: 11/13/18 0						
Gasoline Range Organics (C6-C10)	41.1	20.0	mg/kg	50.0	ND	82.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		"	8.00		105	50-150			
Matrix Spike Dup (1846004-MSD2)				Source: P811031-01 Prepared: 11/12/18 0 Analyzed: 11/13/18 0						
Gasoline Range Organics (C6-C10)	45.7	20.0	mg/kg	50.0	ND	91.3	70-130	10.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		"	8.00		105	50-150			

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Epic Energy	Project Name:	Soil Sampling @ Federal 1 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1846017 - DRO Extraction EPA 3570										
Blank (1846017-BLK1)				Prepared & Analyzed: 11/13/18 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	47.8		"	50.0		95.6	50-200			
LCS (1846017-BS1)				Prepared & Analyzed: 11/13/18 1						
Diesel Range Organics (C10-C28)	489	25.0	mg/kg	500		97.8	38-132			
Surrogate: n-Nonane	43.2		"	50.0		86.3	50-200			
Matrix Spike (1846017-MS1)				Source: P811031-01		Prepared: 11/13/18 1 Analyzed: 11/15/18 0				
Diesel Range Organics (C10-C28)	500	25.0	mg/kg	500	ND	100	38-132			
Surrogate: n-Nonane	41.6		"	50.0		83.1	50-200			
Matrix Spike Dup (1846017-MSD1)				Source: P811031-01		Prepared & Analyzed: 11/13/18 1				
Diesel Range Organics (C10-C28)	492	25.0	mg/kg	500	ND	98.5	38-132	1.51	20	
Surrogate: n-Nonane	41.6		"	50.0		83.2	50-200			

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Laboratory, Inc. (d/b/a Envirotech, Inc.)



Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1846006 - Anion Extraction EPA 300.0/9056A										
Blank (1846006-BLK1)				Prepared & Analyzed: 11/12/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1846006-BS1)				Prepared & Analyzed: 11/12/18 1						
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1846006-MS1)				Source: P811031-01 Prepared & Analyzed: 11/12/18 1						
Chloride	259	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (1846006-MSD1)				Source: P811031-01 Prepared & Analyzed: 11/12/18 1						
Chloride	259	20.0	mg/kg	250	ND	104	80-120	0.201	20	

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Laboratory: envirotech-mexico



Epic Energy	Project Name:	Soil Sampling @ Federal I 5,8,9 Tank Battery	Reported:
7415 East Main	Project Number:	18012-0004	11/15/18 15:24
Farmington NM, 87402	Project Manager:	Felipe Aragon	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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Laboratory: envirotech-lab.com

Project Information

Chain of Custody

Page 1 of 1

Client: <u>WIC Energy</u>				Report Attention				Lab Use Only				TAT		EPA Program					
Project: <u>San Diego Federal TS, B, A</u>				Report due by:				Lab WO# <u>P811031</u>		Job Number <u>18012-0004</u>		1D	3D	RCRA	CWA	SDWA			
Project Manager: <u>Franklin Tont Bottom</u>				Attention:				Analysis and Method										State	
Address:				Address:														NM CO UT AZ	
City, State, Zip				City, State, Zip															
Phone:				Phone:															
Email: <u>Eric Felsen Amon</u>				Email:															
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 8010	Chloride 300.0	TPH 418.1					Remarks		
1304	11/8/18	S	2	West Bottom	1	X	X	X			X								
1306				West Wall	2														
1540				South Bottom	3														
1342				South Wall	4														
1415				East Bottom	5														
1620				East Wall	6														
1500				Center	7	X	X	X			X								

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Franklin Tont Bottom

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>(Y) N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Franklin Tont Bottom</u>	11/9/18	9:59	<u>axv</u>	11/9/18	9:59	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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December 7, 2018

Project Number: 18012-0004

Mr. Vern Andrews
EPIC Energy
7415 East Main Street
Farmington, New Mexico 87401

Phone: (505) 327-4892
Email: vern@walsheng.net

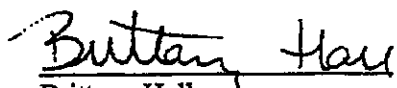
RE: SITE CHARACTERIZATION AND REMEDIATION WORKPLAN AT THE FEDERAL I5, I8, AND I9 TANK BATTERY, SANDOVAL COUNTY, NEW MEXICO

Dear Mr. Andrews,

Enclosed please find the *Site Characterization and Remediation Workplan* detailing contaminated soil delineation, site characterization, and corrective action remediation for the Federal I5, I8, and I9 Tank Battery located in Sandoval County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.


Brittany Hall
Environmental Field Technician
bhall@envirotech-inc.com

Enclosure: Site Characterization and Remediation Workplan

Cc: Client File Number 18012

**WORKPLAN FOR
SOIL REMEDIATION AND RECLAMATION
AT THE FEDERAL I5, I8, AND I9 TANK BATTERY**

SITE NAME:

**FEDERAL I5, I8, AND I9 TANK BATTERY
SECTION 21, TOWNSHIP 23N, RANGE 7W
SANDOVAL COUNTY, NEW MEXICO**

SUBMITTED TO:

**MR. CORY SMITH
NEW MEXICO OIL CONSERVATION DISTRICT
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178
(505) 419-2687**

SUBMITTED FOR:

**MR. VERN ANDREWS
WALSH ENGINEERING
7415 EAST MAIN STREET
FARMINGTON, NEW MEXICO
(505) 327-4892**

SUBMITTED BY:

**ENVIROTECH, INC.
5796 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401
(505) 632-0615**

PROJECT NUMBER: 18012-0004

NOVEMBER 2018



**SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
AT THE FEDERAL I5, I8, AND I9 TANK BATTERY
SANDOVAL COUNTY, NEW MEXICO**

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PURPOSE AND SCOPE OF SERVICES	1
SITE CHARACTERIZATION AND DELINEATION ACTIVITIES:	1
Site Characterization	1
Site Delineation Activities.....	2
Remediation Plan	4
FINAL CLOSURE	5
CLOSURE AND LIMITATIONS	5

Figures: *Figure 1, Vicinity Map*
 Figure 2, Site Map
 Figure 3, Cross Section Map

Tables: *Table 1, Site Characterization Summary*
 Table 2, Summary of Analytical Results

Appendix: *Appendix A, Field Notes*
 Appendix B, Analytical Results
 Appendix C, Soil Boring Lithology Logs



*Site Characterization & Remediation Workplan
Epic Energy
Federal 15, 18, and 19 Tank Battery
Project Number: 18012-0004
November 2018
Page 1*

INTRODUCTION

Envirotech, Inc. (Envirotech) has been retained by EPIC Energy to perform hydrocarbon contaminated soil delineation and site characterization, as well as a corrective action remediation workplan for the Federal 15, 18, and 19 Tank Battery located at 36.218985, -107.577409, Sandoval County, New Mexico. Envirotech has prepared the following documentation, as requested by EPIC Energy Representative, Mr. Vern Andrews, and as a results of a historic release of an unconfirmed amount of hydrocarbon liquids at the site. This document has been prepared in conformance with the 19.15.29 NMAC.

PURPOSE AND SCOPE OF SERVICES

The purpose of this Site Characterization and Remediation Workplan is to provide the methodology for conducting site delineation activities, including: field sampling and contamination screening, laboratory analysis, soil remediation and reclamation, and reporting of the results.

SITE CHARACTERIZATION AND DELINEATION ACTIVITIES:

SITE CHARACTERIZATION

Prior to performing on-site activities, Envirotech personnel conducted a site characterization in order to determine the appropriate cleanup standard for the site. The results of the site characterization are presented in the summary table below.

Table 1: Site Characterization Summary

Depth to groundwater	>100'
Release impacting groundwater/surface water	NO
Release within 300' of water course	YES
Release within 200' lakebed	NO
Release within 300' of residence, school, hospital, institution, or church	NO
Release within 500' of spring or private domestic water well	NO
Release within 1000' of any other water well or spring	NO
Release within incorporated municipal boundaries or fresh water well field	NO
Release within 300' of wetland	NO
Release overlaying a subsurface mine	NO
Release overlaying unstable area/KARST GEOLOGY	NO
Release in 100 year floodplain	NO

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Based on the site characterization and the receptor setbacks listed above, the closure standard for this site was determined to be the most stringent standard listed in *Table 1* of *19.15.29.12 NMAC*. The specific closures standard for the contaminants of concern are as follows: Chloride 600 mg/kg, Total Petroleum Hydrocarbons (TPH) (GRO, DRO & MRO) 100 mg/kg, benzene 10 mg/kg, and total BTEX 50 mg/kg.

SITE DELINEATION ACTIVITIES

Prior to performing field activities, a one call utility service locate was initiated in order to locate and mark any underground utilities. Envirotech personnel arrived to the Site on October 16, 2018 to perform spill assessment and delineation activities. The Site assessment and delineation activities included: borehole advancements in to the sub-surface, on-site field screening of the contaminated soil for TPH and organic vapors (OV), as well completing soil boring logs to detail the soil characteristics.

Based on previous sampling activities and information provided by EPIC Energy personnel, the impacted area was anticipated to be within the bermed area. Utilizing a hand auger, bore holes were advanced into the sub-surface to collect soil samples from discrete intervals. Upon retrieving the samples, the soil characteristics were logged, and an aliquot of the sample was place into Ziploc bags, allowed to warm up, and screened in the field for OV with a photoionization detector (PID). The remaining sample aliquot was placed into individual laboratory provided four (4) ounce jars in preparation for laboratory analysis. Five (5) bore holes were advanced in the anticipated impacted area; one (1) in the center of the tank battery, and one in each cardinal direction away from the center. Each bore hole was advance to maximum depth of the hand auger (4.5 feet) and samples were collected from the 2 foot and 4.5-foot intervals. Each sample was screened in the field for OV with a PID, the center sample returned results of 28.9 ppm and 264 ppm, respectively for the 2 and 4.5-foot intervals. The west sample returned results of 0.0 ppm and 83.2 ppm, respectively for the 2 and 4.5-foot intervals. The east sample returned results of 12.0 ppm and 12.4 ppm, respectively for the 2 and 4.5-foot intervals. The north sample and south sample returned results of 0.0 ppm at the 2 and 4.5-foot intervals. Additionally, the center sample at 2 feet was screened in the field for TPH using 418.1 to provide a base line TPH concentration, as well as field results to correlate with laboratory analysis.

Each of the samples previously collected into four (4) ounce jars were transported on ice under chain of custody and submitted to Envirotech's Analytical Laboratory to be analyzed for TPH (DRO, GRO, ORO) using USEPA Method 8015D, benzene and total BTEX using USEPA Method 8021B, and Chlorides using USEPA Method 300.0. All the samples analyzed returned results below the closure standards for benzene, total BTEX, and chlorides. The samples collected at *Center @ 2' bgs*, *Center @ 4.5' bgs*, *West @ 4.5' bgs*, and *East @ 2' bgs* returned results above the regulatory closure standard of 100 mg/kg. Delineation analytical results can be found in *Table II, Summary of Analytical Results* and *Appendix B, Analytical Results*.

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Based on the analytical results and on-site observations, Envirotech recommend further vertical delineation of the center area and additional vertical and horizontal delineation in the west and east directions.

Prior to Envirotech arrival to the site on November 8, 2018, the one call utility located was renewed and Mr. Cory Smith, NMOCD representative, was notified. Based on the previous recommendations, Envirotech returned to the site to perform additional delineation activities. Utilizing a backhoe, test pits were excavated to fully delineate the western and eastern extents, as well as the center of the impacted area. Additionally, a test pit was excavated at the southernmost point of the historic bermed area, at the request of Walsh Engineering representatives. Due to the placement of the berm, the western sample was taken from just outside of the bermed area. The west test pit was advanced to 7 feet bgs. One (1) sample was collected from the bottom of the test pit (*West Bottom*) and one (1) composite sample was taken from the wall closest to the berm (*West Wall*). The east test pit was excavated outside of the bermed area. The test pit was 7 feet east of the berm with a depth of 6 feet 2 inches. One (1) sample was collected from the bottom of the excavation (*East Bottom*) and one (1) composite sample was taken from the wall closest to the berm (*East Wall*). The center test pit was advanced to 10 feet 6 inches bgs where a competent sandstone base was encounter and maximum feasible depth was reached. One sample was collected from the bottom of the center test pit. At the request of Walsh Engineering, a test pit was excavated at the southernmost edge of the historical bermed area. The south test pit was 6.5 feet bgs. No contamination was observed, and samples were collected from the bottom of the excavation (*South Bottom*) and from the wall closest to the berm (*South Wall*).

All the samples collected were screened in the field for OV using a PID. All the samples with the exception of the center sample returned results of 0.0 ppm OV. The center sample returned results of 0.4 ppm OV at 8 foot and 0.3 ppm OV at 9.5 foot. The samples were then placed into individual laboratory provided four (4) ounce jars, transported on ice under chain of custody, and submitted to Envirotech's Analytical Laboratory to be analyzed for TPH (DRO, GRO, ORO) using USEPA Method 8015D, benzene and total BTEX using USEPA Method 8021B, and Chlorides using USEPA Method 300.0. All samples collected returned results below the regulatory closure standards for all constituents analyzed with the exception of TPH at the *Center* sample at 10'6" bgs.

Based on the on-site observation and analytical results the impacted area is determined to be approximately 46 feet north to south and 36 feet east to west with a depth ranging from 1 foot to 10 feet 6 inched bgs. ~~The estimated in-place impacted soil volume is 300 cubic yards.~~ Envirotech recommends excavation of the impacted soil, collecting composite closure samples of the walls and base of the excavation, disposing of the impacted soil at a permitted remediation facility, backfilling with clean BLM/NMOCD approved soil and re-contorting to pre-incident conditions.

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Epic Energy
Federal 15, 18, and 19 Tank Battery
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REMEDATION PLAN

The corrective action to address the hydrocarbon impacted soil will be to excavate the contaminated soil, dispose of at an appropriate permitted facility and backfill with clean soil. The process is commonly referred to as a "Dig and Haul". On-site activities will not commence without the approval of NMOCD. Prior to performing on-site activities, a one call utility locate will be initiated to located and mark underground utilities. Preliminary on-site activities will include shutting in the location and performing an energy isolation LOTO. The applicable flow lines and tanks will be removed from the area of anticipated activity.

Upon completing site preparations, the impacted soil will be mechanically excavated with a tracked excavator. The estimated in-place volume of contaminated soil is 300 c/y and will likely result in 400 c/y of material being transported and disposed. Upon commencement of the excavation activities, an environmental field technician will be on site to perform periodic soil screening activities. The soil screening activities will include TPH and OV field screening. The on-site soil screening will assist in guiding and directing the excavation process. The excavated soil will be stock piled and loaded onto dump trucks for transportation to Envirotech's NMOCD permitted soil remediation facility, *Landfarm #2* (Permit #: NM 01-0011). The dump trucks will also transport BLM certified weed-free clean soil back to the Site. Each load of contaminated soil and clean fill soil will be logged on a Bill of Lading (BOL) for documentation of disposal and to calculate total volumes.

Upon the walls and base of the excavation retuning field screening results with-in acceptable levels, composite closure samples will be collected to verify the site has been remediated. In accordance with 19.15.29.12 NMAC, the district NMOCD office will be notified two (2) business days prior to performing any confirmation sampling activities. Closure samples will be collected from each wall and the base of the excavation, each sample will be less than 200 ft². If a wall or base is in exceedance of 200 ft², an additional sample will be collected. Additionally, if any discolored or wet areas are observed, an individual grab sample will be collected from the area.

Each closure sample will be divided into two (2) aliquots, one (1) will be collected into laboratory provided 4-ounce glass jars capped headspace free, labeled, and stored in an ice chest, in preparation for laboratory analysis and the other aliquot will be used for field screening activities. The field screening activities will include TPH using USEPA Method 418.1 and OV using a PID. The field screening results will be documented on field sheets and enclosed within the final report.

The samples previously collect in the four (4) ounce jars will be delivered under chain of custody to Envirotech's Laboratory to be analyzed for TPH using USEPA method 8015D, benzene and total BTEX using USEPA Method 8021B, and Chlorides using USEPA

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method 300.0. The results of the analysis will be compared against the most stringent standards of *Table I* of 19.1529.12 NMAC.

In the event that a sample does not meet the closure criteria for TPH, benzene or total BTEX, and the affected area has been excavated to maximum feasible extents, a potassium permanganate solution will be applied to the affected area as an *in-situ* remediation alternative.

Upon all samples meeting the required closure standard the excavation will be backfilled, re-contoured and the surface equipment will be re-installed.

FINAL CLOSURE

A report documenting the onsite activities will be prepared and submitted to the NMOCD following the completion of the soil remediation and reclamation activities. The report will include details of all activities performed, volume of material removed, disposal documentation, and laboratory analysis. The final report will include a chronological narrative with description of activities performed, 7.5 Minute US Topographical Vicinity Map, Site Maps, Summary of Analytical Results, Analytical Results, Field Notes, and Bill of Lading. One (1) digital copy of the report will be submitted to the NMOCD and one (1) copy will be submitted to the Epic Energy. Hard copies will be furnished upon request.

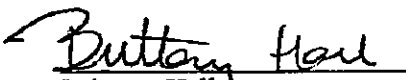
CLOSURE AND LIMITATIONS

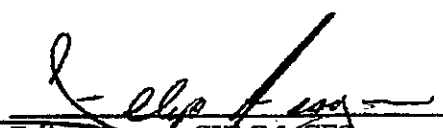
The scope of Envirotech's services will be limited to project management, monitoring, analysis, soil remediation activities, and reporting for the Federal 15, 18, and 19 Tank Battery located at 36.218985, -107.577409, Sandoval County, New Mexico. All work will be performed in accordance with generally accepted practices in geotechnical, hydrogeological, environmental, and petroleum engineering.

Envirotech, Inc. will not perform work beyond the scope of services outlined herein without first obtaining approval from the Responsible Party and the NMOCD.

Respectfully Submitted,
ENVIROTECH, INC.

Reviewed by:


Brittany Hall
Environmental Field Technician
bhall@envirotech-inc.com


Felipe Aragon, CHMM, CES
Environmental Assistant Manager
faragon@envirotech-inc.com

FIGURES

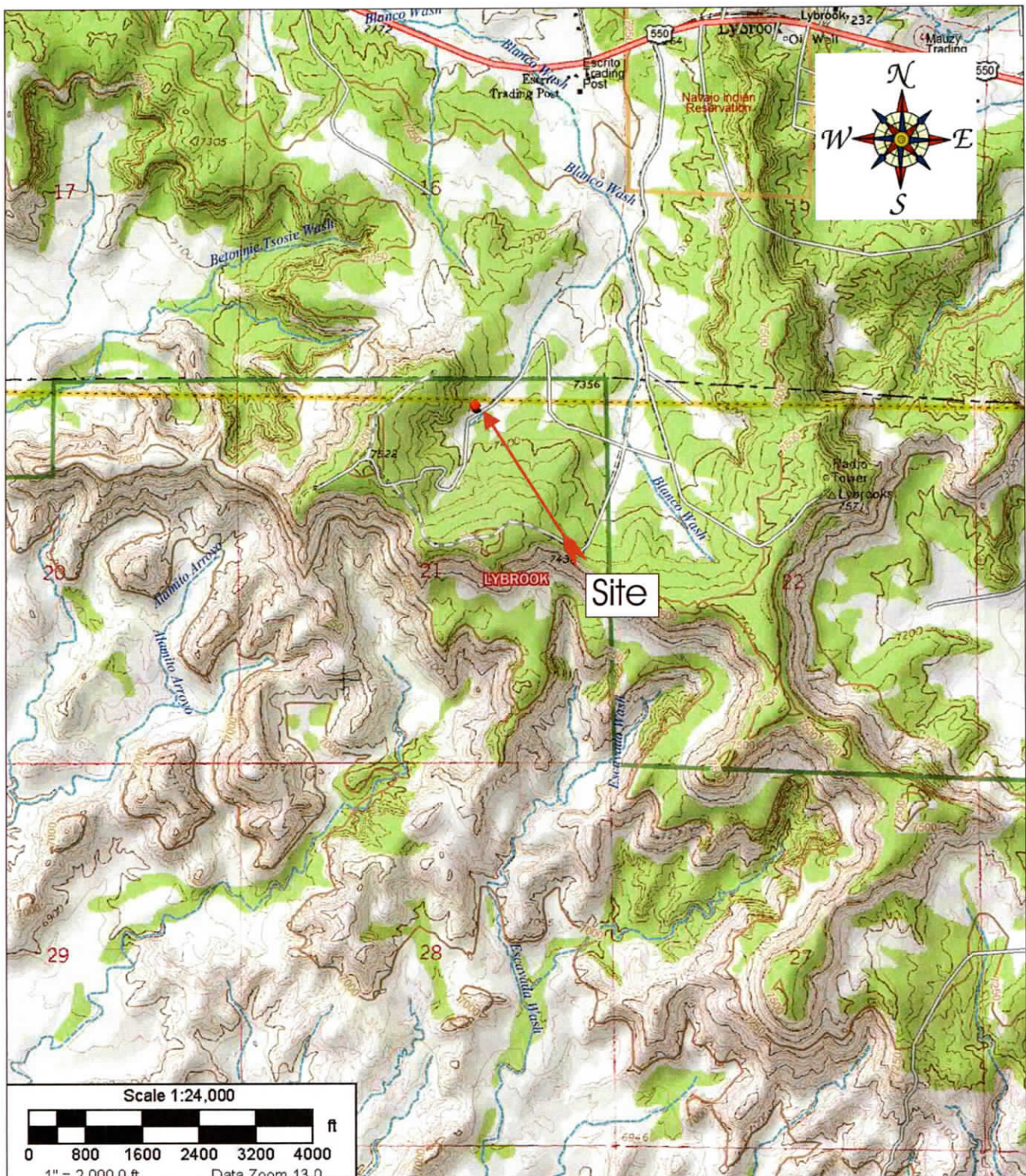
Figure 1, *Vicinity Map*

Figure 2, *Site Map*

Figure 3, *Cross Section Map*



Practical Solutions for a Better Tomorrow



Source: 7.5 Minute, Lybrook, New Mexico U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2000'

<p>Epic Energy Federal 15, 18, and 19 Tank Battery Section 32, Twp 23N, Range 7W Sandoval County, New Mexico</p> <p>Project Number: 18012-0004 Date Drawn: 11/21/2018</p>		<p>envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS</p> <p>5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615</p>		<p>Vicinity Map</p> <p>Figure #1</p> <p>DRAWN BY: Brittany Hall</p> <p>PROJECT MANAGER: Felipe Aragon</p>	
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LEGEND

X Sampling Locations

North Sample (36.218892, -107.577691)

West Sample (36.218857, -107.577744)

South Sample (36.218763, -107.577674)

East Sample (36.218862, -107.577565)

Center Sample (36.218708, -107.577739)

SITE MAP

EPIC PRODUCTION

FEDERAL 1-5, 1-8, 1-9 TANK BATTERY
SECTION 21, TWP 23 NORTH, RANGE 7 WEST
SANDOVAL COUNTY, NEW MEXICO

SCALE: 1"=12'

PROJECT NO18012-0004

FIGURE NO. 2

REV

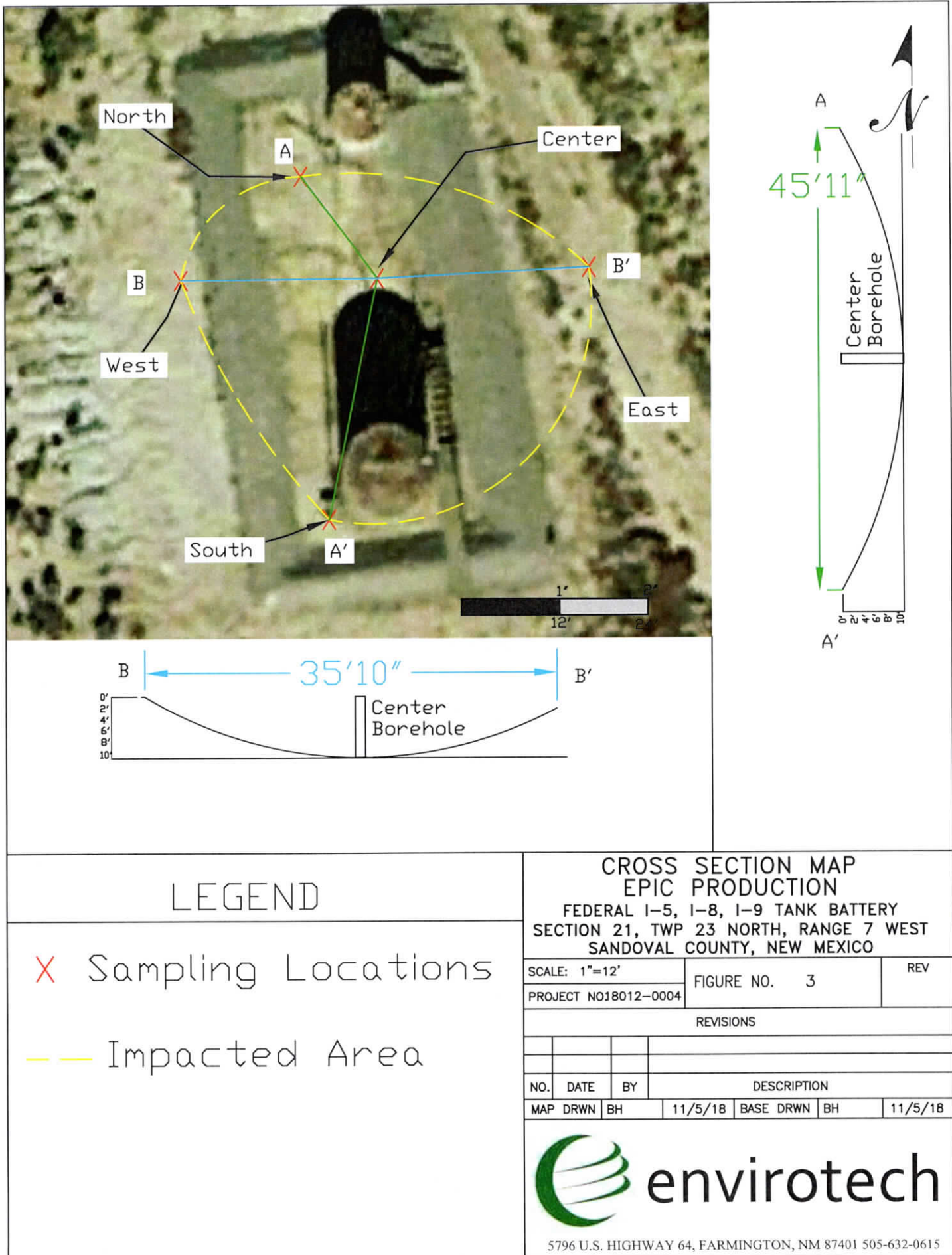
REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	BH	11/5/18	BASE DRWN BH 11/5/18



envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



TABLES:

Table II, *Summary of Analytical Results*



Practical Solutions for a Better Tomorrow

Table 1, Summary of Analytical Results
 Epic Energy
 Site Assessment/Delineation
 Federal 15, 18, and 19 Tank Battery
 Project Number: 18012-0004

Sample Description	Date	Contaminant of Concern			
		TPH (GRO+DRO+MRO)	Benzene	Total BTEX	Chlorides
New Mexico Oil Conservation Division (NMOCD) Allowable Concentrations	NA	100 mg/Kg	10 mg/Kg	50 mg/Kg	600 mg/Kg
Center @ 2' bgs	10/16/2018	722	ND	ND	44.4
Center @ 4.5' bgs	10/16/2018	17,903	3.74	27.7	71.3
West @ 2' bgs	10/16/2018	ND	ND	ND	ND
West @ 4.5' bgs	10/16/2018	7,439	0.544	3.54	ND
East @ 2' bgs	10/16/2018	213	ND	ND	193
East @ 4.5' bgs	10/16/2018	ND	ND	ND	214
North @ 2' bgs	10/16/2018	ND	ND	ND	ND
North @ 4.5' bgs	10/16/2018	ND	ND	ND	ND
South @ 2' bgs	10/16/2018	68.1	ND	ND	ND
South @ 4.5' bgs	10/16/2018	82.6	ND	ND	ND
West Bottom @ 7' bgs	11/8/2018	ND	ND	ND	ND
West Wall	11/8/2018	ND	ND	ND	ND
South Bottom @ 6.5' bgs	11/8/2018	ND	ND	ND	ND
South Wall	11/8/2018	ND	ND	ND	ND
East Bottom @ 6'2" bgs	11/8/2018	ND	ND	ND	ND
East Wall	11/8/2018	ND	ND	ND	20.7
Center @ 10.5' bgs	11/8/2018	2,772.30	ND	1.53	40.9

* NS - Parameter not screened

* ND - Parameter not detected

* BOLD - Parameter above NMOCD regulatory limit

APPENDICES:

Appendix A, *Field Notes*

Appendix B, *Laboratory Results*

Appendix C, *Soil Boring Lithology Logs*



Practical Solutions for a Better Tomorrow

CLIENT: <u>Epic Energy</u>	 envirotech (805) 632-0615 (800) 362-1879 5798 U.S. Hwy 64, Farmington, NM 87401	Envmtl. Spclst: <u>Blaise</u>
CLIENT/JOB #: <u>18012-0004</u>		C.O.C. No: _____
START DATE: <u>10/16/14</u>		LAT _____
FINISH DATE: _____		LONG _____
Page # _____ of _____		

Field Rep. of Spill Closure Verification

NMOCD Ranking: _____	Depth to GW: _____	WH Protection Area: <input type="checkbox"/> No <input type="checkbox"/> Yes
NMOCD TPH Closure Std.: _____	Distance to SW: _____	
LOCATION: Name: <u>Tank Battery for Federal I Well #: 5, 8, 9</u>		API: _____
County: <u>Sandoval</u>		State: <u>NM</u>
Cause of Release: _____	Material Released: _____	Amt. Released: _____
QUAD/UNIT: _____	SEC: _____	TWP: _____
Wellhead Lat/Long: _____		QTR Footage: _____
Spill Located Approximately: _____ FT. FROM _____		
Excavation Approx: _____ FT. X _____ FT. X _____ FT.		Cubic Yardage: _____
Disposal Facility: _____		Remediation Method: _____
Land Use: _____	Lease: _____	Land Owner: _____

FIELD 418.1 ANALYSIS

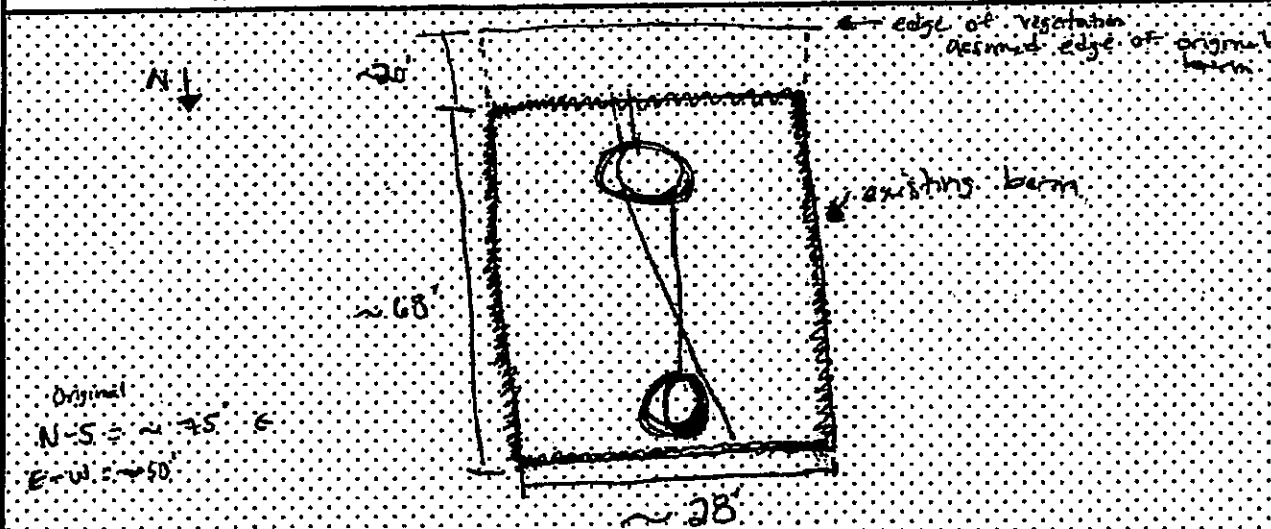
SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 Std	1139	—	—	—	—	—	194
Center ~2.5' bgs	1146	1	5	20	4	310	1240
Center ~4.5' bgs	1200	2					
West ~4.5' bgs	1335	3					
West ~2.0' bgs	1333	4					
East ~2.0' bgs	1345	5					
East ~4.5' bgs	1347	6					
North ~2.0' bgs	1400	7					
North ~4.5' bgs	1405	8					
South ~2.0' bgs	1430	9					
South ~4.5' bgs	1435	10					

OVM Results

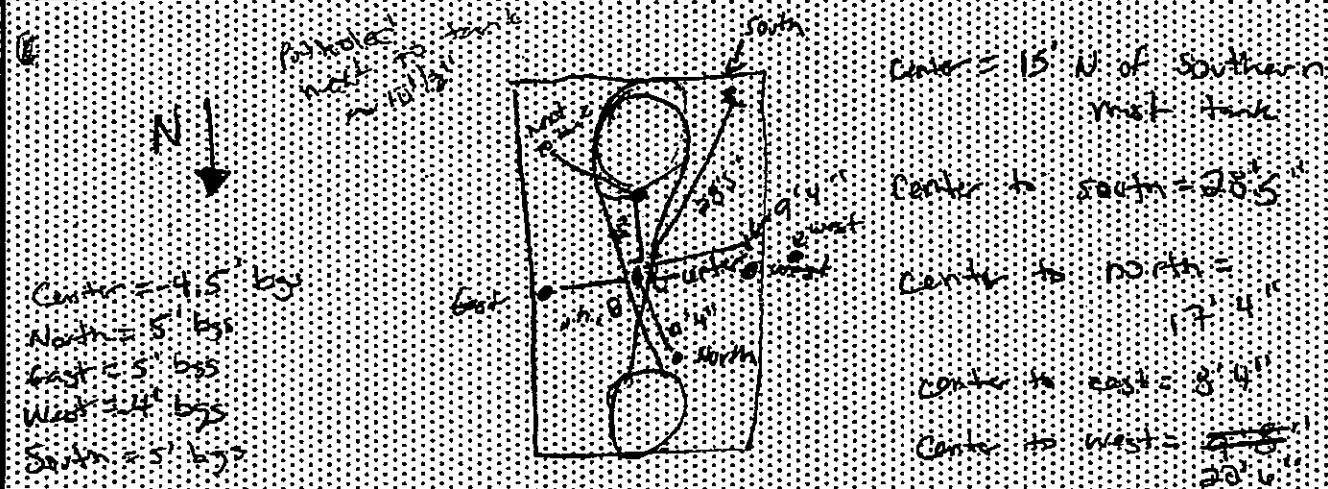
Lab Testing

Sample ID	Field Headspace PID (ppm)	Sample ID	Field Headspace PID (ppm)	Sample ID	Analysis Type	Time
1	28.9	8	0.0	1	8	8021, 8045, cr
2	264	9	0.0	2	9	
3	83.2	10	0.0	3	10	
4	0.0			4		
5	12.0			5		
6	12.4			6		
7	0.0			7		

SPILL PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed.



EXCAVATION PROFILE:



NOTES:

Include number of samples and borings taken, and screening types completed.

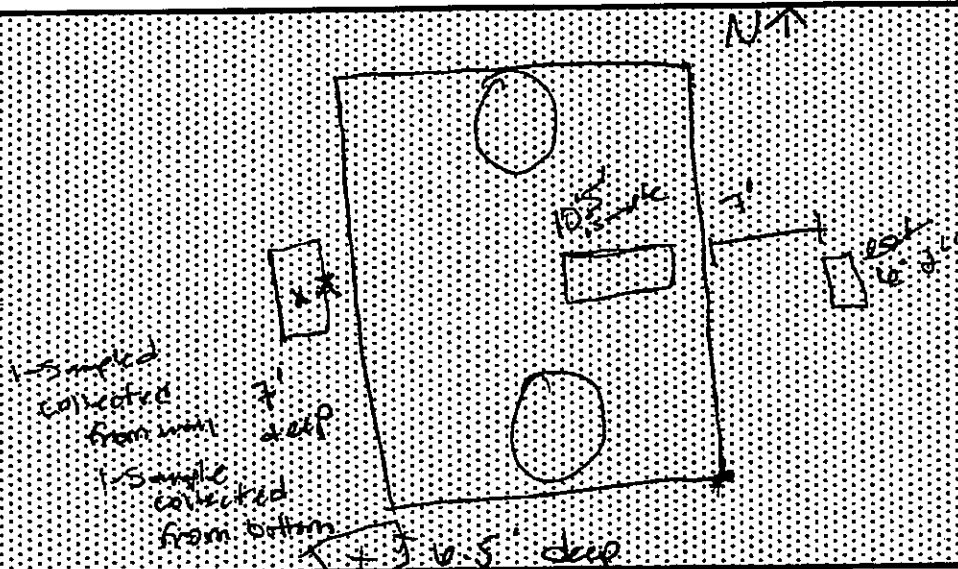
Describe spill in narrative format including amount, source and type of product.

WO #:

Who Ordered/Site Rep:

SPILL PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed.

EXCAVATION PROFILE:



NOTES:

Include number of samples and borings taken, and screening types completed.
Describe spill in narrative format including amount, source and type of product.

WO #:

Who Ordered/Site Rep:



Analytical Report

Report Summary

Client: Epic Energy

Samples Received: 8/27/2020

Job Number: 07173-0001

Work Order: P008099

Project Name/Location: Fed I5,8,9 Tank Battery

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 8/31/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





Epic Energy
7420 Main Street
Farmington NM, 87402

Project Name: Fed 15,8,9 Tank Battery
Project Number: 07173-0001
Project Manager: Vanessa Fields

Reported:
08/31/20 09:20

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Wall	P008099-01A	Soil	08/27/20	08/27/20	Glass Jar, 4 oz.
East Wall	P008099-02A	Soil	08/27/20	08/27/20	Glass Jar, 4 oz.
Base	P008099-03A	Soil	08/27/20	08/27/20	Glass Jar, 4 oz.
North Wall	P008099-04A	Soil	08/27/20	08/27/20	Glass Jar, 4 oz.
West Wall	P008099-05A	Soil	08/27/20	08/27/20	Glass Jar, 4 oz.

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	Reported: 08/31/20 09:20
7420 Main Street	Project Number:	07173-0001	
Farmington NM, 87402	Project Manager:	Vanessa Fields	

South Wall
P008099-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2035033
Benzene	ND	0.0250	1	08/27/20	08/28/20	
Toluene	ND	0.0250	1	08/27/20	08/28/20	
Ethylbenzene	ND	0.0250	1	08/27/20	08/28/20	
p,m-Xylene	ND	0.0500	1	08/27/20	08/28/20	
o-Xylene	ND	0.0250	1	08/27/20	08/28/20	
Total Xylenes	ND	0.0250	1	08/27/20	08/28/20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	50-150	08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2035033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/20	08/28/20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.8 %	50-150	08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2035034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/20	08/27/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/27/20	08/27/20	
<i>Surrogate: n-Nonane</i>		85.5 %	50-200	08/27/20	08/27/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2035036
Chloride	ND	20.0	1	08/27/20	08/27/20	

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	Reported: 08/31/20 09:20
7420 Main Street	Project Number:	07173-0001	
Farmington NM, 87402	Project Manager:	Vanessa Fields	

East Wall
P008099-02 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2035033
Benzene	ND	0.0250	1	08/27/20	08/28/20	
Toluene	ND	0.0250	1	08/27/20	08/28/20	
Ethylbenzene	ND	0.0250	1	08/27/20	08/28/20	
p,m-Xylene	ND	0.0500	1	08/27/20	08/28/20	
o-Xylene	ND	0.0250	1	08/27/20	08/28/20	
Total Xylenes	ND	0.0250	1	08/27/20	08/28/20	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-150	08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2035033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/20	08/28/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	50-150	08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2035034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/20	08/28/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/27/20	08/28/20	
Surrogate: n-Nonane		101 %	50-200	08/27/20	08/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2035036
Chloride	ND	20.0	1	08/27/20	08/27/20	

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	Reported: 08/31/20 09:20
7420 Main Street	Project Number:	07173-0001	
Farmington NM, 87402	Project Manager:	Vanessa Fields	

Base
P008099-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2035033
Benzene	ND	0.0250	1	08/27/20	08/28/20	
Toluene	ND	0.0250	1	08/27/20	08/28/20	
Ethylbenzene	ND	0.0250	1	08/27/20	08/28/20	
p,m-Xylene	ND	0.0500	1	08/27/20	08/28/20	
o-Xylene	ND	0.0250	1	08/27/20	08/28/20	
Total Xylenes	ND	0.0250	1	08/27/20	08/28/20	
Surrogate: 4-Bromochlorobenzene-PID	99.0 %	50-150		08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2035033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/20	08/28/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.4 %	50-150		08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2035034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/20	08/28/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/27/20	08/28/20	
Surrogate: n-Nonane	101 %	50-200		08/27/20	08/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2035036
Chloride	ND	20.0	1	08/27/20	08/27/20	

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	Reported: 08/31/20 09:20
7420 Main Street	Project Number:	07173-0001	
Farmington NM, 87402	Project Manager:	Vanessa Fields	

North Wall
P008099-04 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2035033
Benzene	ND	0.0250	1	08/27/20	08/28/20	
Toluene	ND	0.0250	1	08/27/20	08/28/20	
Ethylbenzene	ND	0.0250	1	08/27/20	08/28/20	
p,m-Xylene	ND	0.0500	1	08/27/20	08/28/20	
o-Xylene	ND	0.0250	1	08/27/20	08/28/20	
Total Xylenes	ND	0.0250	1	08/27/20	08/28/20	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	50-150		08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2035033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/20	08/28/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.0 %	50-150		08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2035034
Diesel Range Organics (C10-C28)	60.9	25.0	1	08/27/20	08/28/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/27/20	08/28/20	
Surrogate: n-Nonane	98.2 %	50-200		08/27/20	08/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2035036
Chloride	ND	20.0	1	08/27/20	08/27/20	

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	Reported: 08/31/20 09:20
7420 Main Street	Project Number:	07173-0001	
Farmington NM, 87402	Project Manager:	Vanessa Fields	

West Wall
P008099-05 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch: 2035033
Benzene	ND	0.0250	1	08/27/20	08/28/20	
Toluene	ND	0.0250	1	08/27/20	08/28/20	
Ethylbenzene	ND	0.0250	1	08/27/20	08/28/20	
p,m-Xylene	ND	0.0500	1	08/27/20	08/28/20	
o-Xylene	ND	0.0250	1	08/27/20	08/28/20	
Total Xylenes	ND	0.0250	1	08/27/20	08/28/20	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150	08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch: 2035033
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/27/20	08/28/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	50-150	08/27/20	08/28/20	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch: 2035034
Diesel Range Organics (C10-C28)	ND	25.0	1	08/27/20	08/28/20	
Oil Range Organics (C28-C40)	ND	50.0	1	08/27/20	08/28/20	
Surrogate: n-Nonane		74.5 %	50-200	08/27/20	08/28/20	
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch: 2035036
Chloride	ND	20.0	1	08/27/20	08/27/20	

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	Reported:
7420 Main Street	Project Number:	07173-0001	08/31/20 09:20
Farmington NM, 87402	Project Manager:	Vanessa Fields	

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2035033-BLK1)

Prepared: 08/27/20 1 Analyzed: 08/28/20 1

Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.3	50-150			

LCS (2035033-BS1)

Prepared: 08/27/20 1 Analyzed: 08/28/20 1

Benzene	5.32	0.0250	5.00		106	70-130			
Toluene	5.33	0.0250	5.00		107	70-130			
Ethylbenzene	5.30	0.0250	5.00		106	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
o-Xylene	5.34	0.0250	5.00		107	70-130			
Total Xylenes	16.0	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	50-150			

Matrix Spike (2035033-MS1)

Source: P008099-01

Prepared: 08/27/20 1 Analyzed: 08/28/20 1

Benzene	5.32	0.0250	5.00	ND	106	54-133			
Toluene	5.33	0.0250	5.00	ND	107	61-130			
Ethylbenzene	5.30	0.0250	5.00	ND	106	61-133			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
o-Xylene	5.32	0.0250	5.00	ND	106	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.11		8.00		101	50-150			

Matrix Spike Dup (2035033-MSD1)

Source: P008099-01

Prepared: 08/27/20 1 Analyzed: 08/28/20 1

Benzene	5.26	0.0250	5.00	ND	105	54-133	1.11	20	
Toluene	5.24	0.0250	5.00	ND	105	61-130	1.65	20	
Ethylbenzene	5.21	0.0250	5.00	ND	104	61-133	1.62	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	2.36	20	
o-Xylene	5.23	0.0250	5.00	ND	105	63-131	1.72	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	2.15	20	
Surrogate: 4-Bromochlorobenzene-PID	8.20		8.00		102	50-150			

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	Reported: 08/31/20 09:20
7420 Main Street	Project Number:	07173-0001	
Farmington NM, 87402	Project Manager:	Vanessa Fields	

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2035033-BLK1)

Prepared: 08/27/20 1 Analyzed: 08/28/20 1

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.8	50-150			

LCS (2035033-BS2)

Prepared: 08/27/20 1 Analyzed: 08/28/20 1

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	50-150			

Matrix Spike (2035033-MS2)

Source: P008099-01 Prepared: 08/27/20 1 Analyzed: 08/28/20 1

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	50-150			

Matrix Spike Dup (2035033-MSD2)

Source: P008099-01 Prepared: 08/27/20 1 Analyzed: 08/28/20 1

Gasoline Range Organics (C6-C10)	40.7	20.0	50.0	ND	81.4	70-130	10.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	50-150			

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	Reported: 08/31/20 09:20
7420 Main Street	Project Number:	07173-0001	
Farmington NM, 87402	Project Manager:	Vanessa Fields	

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2035034-BLK1)

Prepared: 08/27/20 1 Analyzed: 08/27/20 2

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	51.3		50.0		103	50-200			

LCS (2035034-BS1)

Prepared: 08/27/20 1 Analyzed: 08/27/20 2

Diesel Range Organics (C10-C28)	475	25.0	500		95.0	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike (2035034-MS1)

Source: P008099-01 Prepared: 08/27/20 1 Analyzed: 08/28/20 0

Diesel Range Organics (C10-C28)	500	25.0	500	ND	99.9	38-132			
Surrogate: n-Nonane	45.7		50.0		91.3	50-200			

Matrix Spike Dup (2035034-MSD1)

Source: P008099-01 Prepared: 08/27/20 1 Analyzed: 08/28/20 0

Diesel Range Organics (C10-C28)	504	25.0	500	ND	101	38-132	0.798	20	
Surrogate: n-Nonane	51.2		50.0		102	50-200			

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	
7420 Main Street	Project Number:	07173-0001	Reported:
Farmington NM, 87402	Project Manager:	Vanessa Fields	08/31/20 09:20

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2035036-BLK1)

Prepared & Analyzed: 08/27/20 1

Chloride	ND	20.0							
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LCS (2035036-BS1)

Prepared & Analyzed: 08/27/20 1

Chloride	247	20.0	250		98.8	90-110			
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Matrix Spike (2035036-MS1)

Source: P008099-01

Prepared & Analyzed: 08/27/20 1

Chloride	257	20.0	250	ND	103	80-120			
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Matrix Spike Dup (2035036-MSD1)

Source: P008099-01

Prepared: 08/27/20 1 Analyzed: 08/27/20 2

Chloride	255	20.0	250	ND	102	80-120	0.917	20	
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Epic Energy	Project Name:	Fed 15,8,9 Tank Battery	
7420 Main Street	Project Number:	07173-0001	Reported:
Farmington NM, 87402	Project Manager:	Vanessa Fields	08/31/20 09:20

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

Client: PTE Energy		Bill To: EPTC Energy		Lab Use Only		TAT		EPA Program			
Project: Perm S.S. - Eagle Butte		Attention: EPTC Energy		Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA	
Project Manager: Vanessa Waldvogel		Address: 7541 E Main St		P008099 07173-0001							
Address: 7541 E Main St		City, State, Zip: Fort Collins CO 80521		Analysis and Method							
Phone: 955-787-2910		Phone: 955-787-2910		State							
Email: Vanessa.Waldvogel@ptenergy.com		Email: Vanessa.Waldvogel@ptenergy.com		NM CO UT AZ							
Report due by: ASAP		ASAP		TX OK							

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks			
8/27/20	9:45		1	South Wall	1	X	X	X		X					
8/27/20	9:48		1	East Wall	2	X	X	X		X					
8/27/20	9:34		1	Base	3	X	X	X		X					
8/27/20	9:43		1	North Wall	4	X	X	X		X					
8/27/20	9:40		1	West Wall	5	X	X	X		X					

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: [Signature]

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: (Y) / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4.0
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this CDC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

anvintech-inc.com
labadmin@anvintech-inc.com

Shawna Martinez

From: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Sent: Tuesday, April 19, 2022 9:14 AM
To: Shawna Martinez
Cc: John Thompson; Arleen Smith
Subject: RE: [EXTERNAL] Federal I #9 nJK1534846034, nJK1431654981 Federal BL #2 nCS1917537260

Shawna,

In reference to your email sent to Cory below, our records indicate that a final closure report is not in our system for incident # nJK1534846034. If Walsh Engr. possess this document, please submit through the C-141 fee portal and I'll review.

Please contact me if you have any questions.

Thank you and have a great day.

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@state.nm.us

Hrs.: 7:00–11:00 am & 12:00–3:30 pm Mon.–Thur.
7:00–11:00 am & 12:00–4:00 pm Fri.

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Thursday, April 14, 2022 3:04 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: FW: [EXTERNAL] Federal I #9 nJK1534846034, nJK1431654981 Federal BL #2 nCS1917537260

Cory Smith • Environmental Specialist Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113
505.419.2687 | Cory.Smith@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

From: Shawna Martinez <shawna@walsheng.net>
Sent: Wednesday, April 13, 2022 11:52 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Arleen Smith <arleen@walsheng.net>; John Thompson <john@walsheng.net>
Subject: [EXTERNAL] Federal I #9 nJK1534846034, nJK1431654981 Federal BL #2 nCS1917537260

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Vanessa Fields

From: Vanessa Fields
Sent: Monday, August 31, 2020 1:38 PM
To: Smith, Cory, EMNRD; Adeloze, Abiodun A; Powell, Brandon, EMNRD
Cc: John Thompson; Vern Andrews; West Hahn; Paul Thompson; John Hampton Jr
Subject: RE: [EXTERNAL] INC# NJK1534846034 Federal I 5, 8, 9 Tank Battery Remediation to begin August 24, 2020
Attachments: P008099 Envirotech2_v26 FINAL 08 31 20 0920.pdf

Good afternoon,

All analytical results for the Federal I 5, 8, 9 Tank Battery Remediation were below regulatory standards. Epic Energy will begin backfilling.

A final C-141 will be submitted to both agencies.

Thank you,

Vanessa Fields
Regulatory Compliance Manager
Walsh Engineering /Epic Energy LLC.
O: 505-327-4892
C: 505-787-9100
vanessa@walsheng.net

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Sent: Thursday, August 27, 2020 2:37 PM
To: Vanessa Fields <vanessa@walsheng.net>; Adeloze, Abiodun A <aadeloze@blm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: John Thompson <john@walsheng.net>; Vern Andrews <vern@walsheng.net>; West Hahn <west@walsheng.net>; Paul Thompson <paul@walsheng.net>; John Hampton Jr <jdhampton@walsheng.net>
Subject: RE: [EXTERNAL] INC# NJK1534846034 Federal I 5, 8, 9 Tank Battery Remediation to begin August 24, 2020

Vanessa,

Thank you for the follow up, as discussed onsite OCD approves the alternative sampling size. Please include this approval in your final C-141.

OCD approval of the alternative sampling size does not relieve Epic of any other requirements imposed by other regulatory agencies.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Vanessa Fields <vanessa@walsheng.net>
Sent: Thursday, August 27, 2020 2:32 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Adeloye, Abiodun A <aadeloye@blm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: John Thompson <john@walsheng.net>; Vern Andrews <vern@walsheng.net>; West Hahn <west@walsheng.net>; Thompson, Paul <paul@walsheng.net>; John Hampton Jr <jhampton@walsheng.net>
Subject: [EXT] RE: [EXTERNAL] INC# NJK1534846034 Federal I 5, 8, 9 Tank Battery Remediation to begin August 24, 2020

Good afternoon everyone,

Confirmation sampling was conducted today on the Federal I 5, 8, 9 Tank Battery .

It was agreed upon after a review with the NMOCD onsite that 400sq feet composite would be completed. 5 composite samples were collected from the Base and sidewalls of the excavation.

Cory Smith with the NMOCD was onsite to witness the confirmation sampling.

Please let me know if you have any questions.

Thank you,

Vanessa Fields
Regulatory Compliance Manager
Walsh Engineering /Epic Energy LLC.
O: 505-327-4892
C: 505-787-9100
vanessa@walsheng.net

From: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Sent: Friday, August 21, 2020 4:47 PM

To: Vanessa Fields <vanessa@walsheng.net>; Adeloye, Abiodun A <aadeloye@blm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>

Cc: John Thompson <john@walsheng.net>; Vern Andrews <vern@walsheng.net>; West Hahn <west@walsheng.net>; Paul Thompson <paul@walsheng.net>; John Hampton Jr <jhampton@walsheng.net>; Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>

Subject: RE: [EXTERNAL] INC# NJK1534846034 Federal I 5, 8, 9 Tank Battery Remediation to begin August 24, 2020

Vanessa,

OCD has reviewed Epic Energy Company(Epic) variance request and cannot approve the variance request at this time due to a lack of site specific or sampling event information.

However upon a showing of a good cause for the notice requirements typical failed sample results, inclement weather or specific site conditions Epic may then request a variance and the OCD can make a determination. In addition the OCD cannot determine if 300 sqft sampling size will be a representative sample until the excavation is open or additional site characterization information is provided. EPIC can request a variance to the sampling size when the excavation is open and an OCD representative is onsite or alternatively if a OCD representative is not onsite via email/phone with additional information i.e. photos etc.

If you have any additional questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Vanessa Fields <vanessa@walsheng.net>

Sent: Friday, August 21, 2020 3:27 PM

To: Adeloye, Abiodun A <aadeloye@blm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Cc: John Thompson <john@walsheng.net>; Vern Andrews <vern@walsheng.net>; West Hahn <west@walsheng.net>; Thompson, Paul <paul@walsheng.net>; John Hampton Jr <jhampton@walsheng.net>

Subject: [EXT] RE: [EXTERNAL] INC# NJK1534846034 Federal I 5, 8, 9 Tank Battery Remediation to begin August 24, 2020

Thank you very much Emanuel. I will ensure to get Cory's approval.

Thank you,

Vanessa Fields

Regulatory Compliance Manager
Walsh Engineering /Epic Energy LLC.
O: 505-327-4892
C: 505-787-9100
vanessa@walsheng.net

From: Adeloeye, Abiodun A <aadeloeye@blm.gov>
Sent: Friday, August 21, 2020 3:18 PM
To: Vanessa Fields <vanessa@walsheng.net>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: John Thompson <john@walsheng.net>; Vern Andrews <vern@walsheng.net>; West Hahn <west@walsheng.net>; Paul Thompson <paul@walsheng.net>; John Hampton Jr <jhampton@walsheng.net>
Subject: Re: [EXTERNAL] INC# NJK1534846034 Federal I 5, 8, 9 Tank Battery Remediation to begin August 24, 2020

Hi Vanessa, thank you for the updates.

BLM FFO approved the variances requested by Epic Energy Company for

48 hour sampling notification to 24 hour notification for the continuation of the sampling events after the Wednesday August 26, 2020 Sampling event and for 300 sqft sampling composite sections.

Please know that the BLM approval does not relieve Epic Energy responsibilities from other agency(es) who have jurisdiction in the said area.

Please let me know if you have any questions.

Thank you

Abiodun Adeloeye (Emmanuel), NRS

*Bureau of Land Management
Farmington Field Office
6251 College Blvd., Suite A
Farmington, NM 87402
Office Phone: 505-564-7665
Cell Phone: 505-635-0984*

From: Vanessa Fields <vanessa@walsheng.net>
Sent: Friday, August 21, 2020 1:57 PM
To: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Adeloeye, Abiodun A <aadeloeye@blm.gov>
Cc: John Thompson <john@walsheng.net>; Vern Andrews <vern@walsheng.net>; West Hahn <west@walsheng.net>; Paul Thompson <paul@walsheng.net>;

John Hampton Jr <jdhampton@walsheng.net>

Subject: [EXTERNAL] INC# NJK1534846034 Federal I 5, 8, 9 Tank Battery Remediation to begin August 24, 2020

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Good afternoon,

Please let this serve as notification that EPIC Energy will begin remediation on the Federal I5,8,9 Tank Battery on Monday August 24, 2020. I anticipate confirmation sampling to be Wednesday August 26, 2020 at 1:00pm. However, I will keep all agencies updated on the remediation process.

Epic Energy request a variance from the [19.15.29.12](#) (D)(a) 48 hour sampling notification to 24 hour notification for the continuation of the sampling events after the Wednesday August 26, 2020 Sampling event.

As well, Epic Energy request a variance to rule 19.15.29.12.(D)(c) for 300sqft sampling composite sections.

NJK1534846034 FEDERAL I5, 8, 9 TANK BATTERY @ 30-043-20929

General Incident Information

Site Name:	Federal I5, 8, 9 Tank Battery	Severity:	
Well:	30-043-20929 FEDERAL I #009	Surface Owner:	Federal
Facility:		County:	Sandoval (43)
Operator:	372834 EPIC ENERGY, L.L.C.		
Status:	Closure Not Approved		
Type:	Oil Release		
District:	Aztec		
Incident Location:	B-21-23N-07W 330 FNL 1790 FEL		
Lat/Long:	36.2189827,-107.577446 NAD83		
Directions:			

Thank you,
Vanessa Fields
Regulatory Compliance Manager
Walsh Engineering /Epic Energy LLC.
O: 505-327-4892
C: 505-787-9100







District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 191310

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 191310
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	4/27/2023