

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

NVF 1823634114

Responsible Party NNOGC Exploration & Production, LLC	OGRID 292875
Contact Name Vern. O. Andrews	Contact Telephone 505-327-4892
Contact email vern@walsheng.net	Incident # (assigned by OCD)
Contact mailing address 7415 E. Main St., Farmington NM 87402	

Location of Release Source

Latitude 36.45369

Longitude -108.74407

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Navajo Tribe AR #006	Site Type Well Location
Date Release Discovered August 10, 2018	API# (if applicable) 30-045-21445

Unit Letter	Section	Township	Range	County
O	27	26N	18W	San Juan

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

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) 83.75	Volume Recovered (bbls) -0-
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 69.31	Volume Recovered (bbls) -0-
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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

Stuffing box packing blew out from the wellhead.

NMOCD
DEC 07 2018
DISTRICT III

39

State of New Mexico
Oil Conservation Division

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

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: Michael L. Dean

Title: SUPERINTENDENT / AGENT
Project Specialist

Signature: Vern O. Andrews

Date: 11/30/18

email: michael.dean@walsheng.net

Telephone: 505-860-0481

OCD Only

Received by: _____ Date: _____

Incident ID	
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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?	N/A (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 type="checkbox"/> Yes <input checked="" 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

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.

Incident ID	
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Printed Name: Michael L. Dean Title: Project Specialist
Signature: *Michael L. Dean* Date: 11/30/18
email: michael.dean@walsheng.net Telephone: 505-860-0481

OCD Only

Received by: _____ Date: _____

Incident ID	
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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: VERN ANDREWS Title: SUPERINTENDANT/AGENT
Michael L. Dean Title: Project Specialist
 Signature: Vern O. Andrews Date: 11/30/18
 email: michael.dean@walsheng.net Telephone: 505-860-0481

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
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: Michael L. Dean Title: Project Specialist
 Signature: Michael L. Dean Date: 11/30/18
 email: michael.dean@walsheng.net Telephone: 505-860-0481

OCD Only

Received by: Vanessa Fields Date: 12/17/2018

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: Vanessa Fields Date: 12/28/2018
 Printed Name: Vanessa Fields Title: Environmental Specialist

Analytical Report

Report Summary

Client: Navajo Nation Oil and Gas
Chain Of Custody Number:
Samples Received: 9/7/2018 1:00:00PM
Job Number: 08034-0006
Work Order: P809007 Project Name/
Location: Navajo Tribal AR-6
API# 30-045-21445
North, South & Middle samples of
excavation site.

MIDDLE SAMPLE ABOVE
ALLOWABLE LIMIT.
NORTH & SOUTH - OK

Report Reviewed By:



Walter Hinchman, Laboratory Director

Date: 9/12/18



Tim Cain, Project Manager

Date: 9/12/18



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.

NMOCB
DEC 07 2018
DISTRICT III

Navajo Nation Oil and Gas
 P.O. Box 4439
 Window Rock AZ, 86515

 Project Name: AR-6 - 30-045-21445
 Project Number: 08034-0006
 Project Manager: Vern Andrews

Reported:
 09/12/18 11:57

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North	P809007-01A	Solid	09/07/18	09/07/18	Glass Jar, 4 oz.
South	P809007-02A	Solid	09/07/18	09/07/18	Glass Jar, 4 oz.
Middle	P809007-03A	Solid	09/07/18	09/07/18	Glass Jar, 4 oz.

NMOCD
 DEC 07 2018
 DISTRICT III

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Navajo Nation Oil and Gas	Project Name:	AR-6 - 30-045-21445	Reported: 09/12/18 11:57
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vern Andrews	

North
P809007-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-PID 99.3 % 50-150 1836017 09/07/18 09/10/18 EPA 8021B

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1836017	09/07/18	09/10/18	EPA 8015D	
Diesel Range Organics (C10-C28)	517	25.0	mg/kg	1	1836018	09/07/18	09/10/18	EPA 8015D	
Oil Range Organics (C28-C40+)	190	50.0	mg/kg	1	1836018	09/07/18	09/10/18	EPA 8015D	

Surrogate: 1-Chloro-4-fluorobenzene-FID 99.7 % 50-150 1836017 09/07/18 09/10/18 EPA 8015D

Surrogate: n-Nonane 109 % 50-200 1836018 09/07/18 09/10/18 EPA 8015D

Anions by 300.0/9056A

Chloride	1200	20.0	mg/kg	1	1837001	09/10/18	09/10/18	EPA 300.0/9056A	
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Navajo Nation Oil and Gas
 P.O. Box 4439
 Window Rock AZ, 86515

 Project Name: AR-6 - 30-045-21445
 Project Number: 08034-0006
 Project Manager: Vern Andrews

Reported:
 09/12/18 11:57

South
P809007-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %		50-150	1836017	09/07/18	09/10/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1836017	09/07/18	09/10/18	EPA 8015D	
Diesel Range Organics (C10-C28)	339	50.0	mg/kg	2	1836018	09/07/18	09/10/18	EPA 8015D	
Oil Range Organics (C28-C40+)	129	100	mg/kg	2	1836018	09/07/18	09/10/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.0 %		50-150	1836017	09/07/18	09/10/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1836018	09/07/18	09/10/18	EPA 8015D	

Anions by 300.0/9056A

Chloride	5620	200	mg/kg	10	1837001	09/10/18	09/10/18	EPA 300.0/9056A	
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5796 US Highway 64, Farmington, NM 87401

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

 envirotech-inc.com
 laboratory@envirotech-inc.com

Navajo Nation Oil and Gas	Project Name: AR-6 - 30-045-21445	
P.O. Box 4439	Project Number: 08034-0006	Reported:
Window Rock AZ, 86515	Project Manager: Vern Andrews	09/12/18 11:57

Middle
P809007-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1836017	09/07/18	09/10/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.2 %		50-150	1836017	09/07/18	09/10/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1836017	09/07/18	09/10/18	EPA 8015D	
Diesel Range Organics (C10-C28)	3640	25.0	mg/kg	1	1836018	09/07/18	09/10/18	EPA 8015D	
Oil Range Organics (C28-C40+)	1200	50.0	mg/kg	1	1836018	09/07/18	09/10/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.0 %		50-150	1836017	09/07/18	09/10/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		139 %		50-200	1836018	09/07/18	09/10/18	EPA 8015D	

Anions by 300.0/9056A

Chloride	8520	200	mg/kg	10	1837001	09/10/18	09/10/18	EPA 300.0/9056A	
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Navajo Nation Oil and Gas	Project Name:	AR-6	
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vern Andrews	Reported: 09/12/18 11:57

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 1836017 - Purge and Trap EPA 5030A

Blank (1836017-BLK1)

Prepared: 09/07/18 1 Analyzed: 09/10/18 1

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	7860		"	8000		98.2	50-150			

LCS (1836017-BS1)

Prepared: 09/07/18 1 Analyzed: 09/10/18 1

Benzene	5170	100	ug/kg	5000		103	70-130			
Toluene	5270	100	"	5000		105	70-130			
Ethylbenzene	5380	100	"	5000		108	70-130			
p,m-Xylene	11000	200	"	10000		110	70-130			
o-Xylene	5310	100	"	5000		106	70-130			
Total Xylenes	16300	100	"	15000		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7980		"	8000		99.8	50-150			

Matrix Spike (1836017-MS1)

Source: P809007-01

Prepared: 09/07/18 1 Analyzed: 09/10/18 2

Benzene	4490	100	ug/kg	5000	ND	89.8	54.3-133			
Toluene	4590	100	"	5000	ND	91.8	61.4-130			
Ethylbenzene	4700	100	"	5000	ND	93.9	61.4-133			
p,m-Xylene	9640	200	"	10000	ND	96.4	63.3-131			
o-Xylene	4640	100	"	5000	ND	92.8	63.3-131			
Total Xylenes	14300	100	"	15000	ND	95.2	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7840		"	8000		98.0	50-150			

Matrix Spike Dup (1836017-MSD1)

Source: P809007-01

Prepared: 09/07/18 1 Analyzed: 09/10/18 2

Benzene	4830	100	ug/kg	5000	ND	96.6	54.3-133	7.22	20	
Toluene	4930	100	"	5000	ND	98.6	61.4-130	7.09	20	
Ethylbenzene	5030	100	"	5000	ND	101	61.4-133	6.88	20	
p,m-Xylene	10300	200	"	10000	ND	103	63.3-131	6.84	20	
o-Xylene	4960	100	"	5000	ND	99.2	63.3-131	6.69	20	
Total Xylenes	15300	100	"	15000	ND	102	63.3-131	6.79	20	
Surrogate: 4-Bromochlorobenzene-PID	7800		"	8000		97.5	50-150			

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laboratory@envirotech-inc.com

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Navajo Nation Oil and Gas	Project Name:	AR-6	
P.O. Box 4439	Project Number:	08034-0006	Reported:
Window Rock AZ, 86515	Project Manager:	Vern Andrews	09/12/18 11:57

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 1836017 - Purge and Trap EPA 5030A

Blank (1836017-BLK1)

Prepared: 09/07/18 1 Analyzed: 09/10/18 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		"	8.00		97.5	50-150			

LCS (1836017-BS2)

Prepared: 09/07/18 1 Analyzed: 09/10/18 1

Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.06		"	8.00		101	50-150			

Matrix Spike (1836017-MS2)

Source: P809007-01

Prepared: 09/07/18 1 Analyzed: 09/10/18 2

Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0	ND	95.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		"	8.00		95.8	50-150			

Matrix Spike Dup (1836017-MSD2)

Source: P809007-01

Prepared: 09/07/18 1 Analyzed: 09/10/18 2

Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.8	70-130	1.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		"	8.00		97.4	50-150			

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laboratory@envirotech-inc.com



Navajo Nation Oil and Gas	Project Name:	AR-6	Reported: 09/12/18 11:57
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vern Andrews	

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 1836018 - DRO Extraction EPA 3570

Blank (1836018-BLK1)

Prepared: 09/07/18 1 Analyzed: 09/10/18 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	52.7		"	50.0		105	50-200			

LCS (1836018-BS1)

Prepared: 09/07/18 1 Analyzed: 09/10/18 1

Diesel Range Organics (C10-C28)	486	25.0	mg/kg	500		97.2	38-132			
Surrogate: n-Nonane	55.6		"	50.0		111	50-200			

Matrix Spike (1836018-MS1)

Source: P809007-02

Prepared: 09/07/18 1 Analyzed: 09/10/18 2

Diesel Range Organics (C10-C28)	902	50.0	mg/kg	500	339	113	38-132			
Surrogate: n-Nonane	55.3		"	50.0		111	50-200			

Matrix Spike Dup (1836018-MSD1)

Source: P809007-02

Prepared: 09/07/18 1 Analyzed: 09/10/18 2

Diesel Range Organics (C10-C28)	781	50.0	mg/kg	500	339	88.3	38-132	14.4	20	
Surrogate: n-Nonane	55.0		"	50.0		110	50-200			

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Navajo Nation Oil and Gas
 P.O. Box 4439
 Window Rock AZ, 86515

 Project Name: AR-6
 Project Number: 08034-0006
 Project Manager: Vern Andrews

Reported:
 09/12/18 11:57

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
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Batch 1837001 - Anion Extraction EPA 300.0/9056A
Blank (1837001-BLK1)

Prepared: 09/10/18 0 Analyzed: 09/10/18 1

Chloride ND 20.0 mg/kg

LCS (1837001-BS1)

Prepared: 09/10/18 0 Analyzed: 09/10/18 1

Chloride 257 20.0 mg/kg 250 103 90-110

Matrix Spike (1837001-MS1)
Source: P809007-01

Prepared: 09/10/18 0 Analyzed: 09/10/18 1

Chloride 1470 20.0 mg/kg 250 1200 106 80-120

Matrix Spike Dup (1837001-MSD1)
Source: P809007-01

Prepared: 09/10/18 0 Analyzed: 09/10/18 1

Chloride 1450 20.0 mg/kg 250 1200 98.6 80-120 1.30 20

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Navajo Nation Oil and Gas	Project Name:	AR-6	Reported: 09/12/18 11:57
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vern Andrews	

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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Project Information

Chain of Custody

Page 1 of 11

Client: NAVAJO NATION / WASH
 Project: AR-6
 Project Manager: MICHAEL L DEAN
 Address: _____
 City, State, Zip _____
 Phone: _____
 Email: Michael Dean

Report Attention
 Report due by: 9-12-18
 Attention: JOHN HAMPTON
 Address: _____
 City, State, Zip _____
 Phone: _____
 Email: JD HAMPTON @ WALSHENG.NET

Lab Use Only
 Lab WO# P809007 Job Number 18034-1006
 TAT 1D 3D ☒ ☐
 EPA Program RCRA CWA SDW
 Analysis and Method State
 NM CO UT A

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	TPH 418.1	Remarks
9:15 AM	9-7-18	SD	1 ^{aw}	<u>NORTH</u>	1	X	X	X			X		14oz jar
9:20 AM	9-7-18	SD	1 ^{aw}	<u>SOUTH</u>	2 ^{aw}								14oz jar
9:25 AM	9-7-18	SD	1 ^{aw}	<u>MIDDLE</u>	3 ^{aw}								14oz jar

Additional Instructions:

Vis ice in cooler

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: Michael Dean

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) <u>Michael Dean</u>	Date <u>9-7-18</u>	Time <u>1:00pm</u>	Received by: (Signature) <u>John Hampton</u>	Date <u>9-7-18</u>	Time <u>1:30</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3 AVG Temp °C <u>4.0</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 laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



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

envirotech-inc.com
 laboratory@envirotech-inc.com

Analytical Report

Report Summary

Client: Navajo Nation Oil and Gas

Chain Of Custody Number:

Samples Received: 9/25/2018 9:03:00AM

Job Number: 08034-0006

Work Order: P809052

Project Name/Location: AR-6

30-045-21445

FINAL SAMPLE - MIDDLE AREA.
SAMPLE OK PER TABLE 1
>100 FEET.

Report Reviewed By:



Date: 9/27/18

Walter Hinchman, Laboratory Director



Date: 9/27/18

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.



Navajo Nation Oil and Gas
P.O. Box 4439
Window Rock AZ, 86515

Project Name: AR-6
Project Number: 08034-0006
Project Manager: Vern Andrews

30-045-21445

Reported:
09/27/18 18:21

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Middle	P809052-01A	Soil	09/25/18	09/25/18	Glass Jar, 4 oz.

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Navajo Nation Oil and Gas	Project Name:	AR-6	30-046-21445	Reported: 09/27/18 18:21
P.O. Box 4439	Project Number:	08034-0006		
Window Rock AZ, 86515	Project Manager:	Vern Andrews		

Middle
P809052-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839011	09/25/18	09/25/18	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-PID 98.5 % 50-150 1839011 09/25/18 09/25/18 EPA 8021B

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839011	09/25/18	09/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	242	25.0	mg/kg	1	1839012	09/25/18	09/26/18	EPA 8015D	
Oil Range Organics (C28-C40+)	71.6	50.0	mg/kg	1	1839012	09/25/18	09/26/18	EPA 8015D	

Surrogate: 1-Chloro-4-fluorobenzene-FID 98.3 % 50-150 1839011 09/25/18 09/25/18 EPA 8015D

Surrogate: n-Nonane 100 % 50-200 1839012 09/25/18 09/26/18 EPA 8015D

Anions by 300.0/9056A

Chloride	15400	200	mg/kg	10	1839013	09/25/18	09/26/18	EPA 300.0/9056A	
----------	-------	-----	-------	----	---------	----------	----------	--------------------	--

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Navajo Nation Oil and Gas
P.O. Box 4439
Window Rock AZ, 86515

Project Name: AR-6
Project Number: 08034-0006
Project Manager: Vern Andrews

Reported:
09/27/18 18:21

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1839011 - Purge and Trap EPA 5030A

Blank (1839011-BLK1)

Prepared: 09/25/18 1 Analyzed: 09/26/18 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	8070		"	8000		101	50-150			

LCS (1839011-BS1)

Prepared: 09/25/18 1 Analyzed: 09/26/18 0

Benzene	5150	100	ug/kg	5000		103	70-130			
Toluene	5180	100	"	5000		104	70-130			
Ethylbenzene	5230	100	"	5000		105	70-130			
p,m-Xylene	10700	200	"	10000		107	70-130			
o-Xylene	5200	100	"	5000		104	70-130			
Total Xylenes	15900	100	"	15000		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8150		"	8000		102	50-150			

Matrix Spike (1839011-MS1)

Source: P809050-01

Prepared: 09/25/18 1 Analyzed: 09/26/18 0

Benzene	5060	100	ug/kg	5000	ND	101	54.3-133			
Toluene	5080	100	"	5000	ND	102	61.4-130			
Ethylbenzene	5120	100	"	5000	ND	102	61.4-133			
p,m-Xylene	10500	200	"	10000	ND	105	63.3-131			
o-Xylene	5080	100	"	5000	ND	102	63.3-131			
Total Xylenes	15600	100	"	15000	ND	104	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8220		"	8000		103	50-150			

Matrix Spike Dup (1839011-MSD1)

Source: P809050-01

Prepared: 09/25/18 1 Analyzed: 09/26/18 0

Benzene	5340	100	ug/kg	5000	ND	107	54.3-133	5.41	20	
Toluene	5360	100	"	5000	ND	107	61.4-130	5.36	20	
Ethylbenzene	5390	100	"	5000	ND	108	61.4-133	5.18	20	
p,m-Xylene	11000	200	"	10000	ND	110	63.3-131	4.93	20	
o-Xylene	5330	100	"	5000	ND	107	63.3-131	4.77	20	
Total Xylenes	16400	100	"	15000	ND	109	63.3-131	4.88	20	
Surrogate: 4-Bromochlorobenzene-PID	8170		"	8000		102	50-150			

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Navajo Nation Oil and Gas	Project Name:	AR-6	Reported: 09/27/18 18:21
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vern Andrews	

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 1839011 - Purge and Trap EPA 5030A

Blank (1839011-BLK1)				Prepared: 09/25/18 1 Analyzed: 09/26/18 0						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		"	8.00		98.0	50-150			
LCS (1839011-BS2)				Prepared: 09/25/18 1 Analyzed: 09/26/18 0						
Gasoline Range Organics (C6-C10)	39.1	20.0	mg/kg	50.0		78.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		"	8.00		99.1	50-150			
Matrix Spike (1839011-MS2)				Source: P809050-01		Prepared: 09/25/18 1 Analyzed: 09/26/18 0				
Gasoline Range Organics (C6-C10)	44.0	20.0	mg/kg	50.0	ND	88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		"	8.00		97.6	50-150			
Matrix Spike Dup (1839011-MSD2)				Source: P809050-01		Prepared: 09/25/18 1 Analyzed: 09/26/18 0				
Gasoline Range Organics (C6-C10)	48.1	20.0	mg/kg	50.0	ND	96.3	70-130	8.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		"	8.00		97.4	50-150			

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Navajo Nation Oil and Gas	Project Name:	AR-6	Reported: 09/27/18 18:21
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vern Andrews	

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 1839012 - DRO Extraction EPA 3570

Blank (1839012-BLK1)				Prepared: 09/25/18 1 Analyzed: 09/26/18 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	47.2		"	50.0		94.4	50-200			
LCS (1839012-BS1)				Prepared: 09/25/18 1 Analyzed: 09/26/18 1						
Diesel Range Organics (C10-C28)	418	25.0	mg/kg	500		83.6	38-132			
Surrogate: n-Nonane	46.8		"	50.0		93.6	50-200			
Matrix Spike (1839012-MS1)				Source: P809050-01		Prepared: 09/25/18 1 Analyzed: 09/26/18 1				
Diesel Range Organics (C10-C28)	424	25.0	mg/kg	500	ND	84.7	38-132			
Surrogate: n-Nonane	46.3		"	50.0		92.5	50-200			
Matrix Spike Dup (1839012-MSD1)				Source: P809050-01		Prepared: 09/25/18 1 Analyzed: 09/26/18 1				
Diesel Range Organics (C10-C28)	423	25.0	mg/kg	500	ND	84.7	38-132	0.00141	20	
Surrogate: n-Nonane	46.4		"	50.0		92.9	50-200			

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Navajo Nation Oil and Gas	Project Name:	AR-6	Reported: 09/27/18 18:21
P.O. Box 4439	Project Number:	08034-0006	
Window Rock AZ, 86515	Project Manager:	Vern Andrews	

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
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Batch 1839013 - Anion Extraction EPA 300.0/9056A

Blank (1839013-BLK1)				Prepared & Analyzed: 09/25/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1839013-BS1)				Prepared & Analyzed: 09/25/18 1						
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1839013-MS1)				Source: P809052-01		Prepared: 09/25/18 1 Analyzed: 09/26/18 1				
Chloride	15600	200	mg/kg	250	15400	85.5	80-120			
Matrix Spike Dup (1839013-MSD1)				Source: P809052-01		Prepared: 09/25/18 1 Analyzed: 09/26/18 1				
Chloride	15700	200	mg/kg	250	15400	118	80-120	0.519	20	

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Navajo Nation Oil and Gas
P.O. Box 4439
Window Rock AZ, 86515

Project Name: AR-6
Project Number: 08034-0006
Project Manager: Vern Andrews

Reported:
09/27/18 18:21

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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Client: NAVAJO NATION / WALSH
 Project: AR-6
 Project Manager: MICHAEL L DENT
 Address: 7415 EAST MAIN
 City, State, Zip: FARMINGTON, N.M. 87402
 Phone: 505-327-4492
 Email: VERNA@WALSHENG.NET

Report Attention
 Report due by: 9-28-18
 Attention: VERN ANDREWS
 Address: 7415 EAST MAIN
 City, State, Zip: FARMINGTON N.M. 87402
 Phone: 505-320-1763
 Email: VERN@WALSHENG.NET

Lab Use Only
 Lab WO# P809052 Job Number 08034-0006
 TAT 1D 3D X
 EPA Program RCRA CWA SDWA

Analysis and Method
 State NM CO UT AZ
X

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	TPH 418.1	Remarks
7:30	9-25-18	SD	G	MIDDLE	1	X	X	X			X		

Additional Instructions: vis ice in cooler

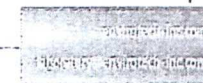
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Michael L Dent

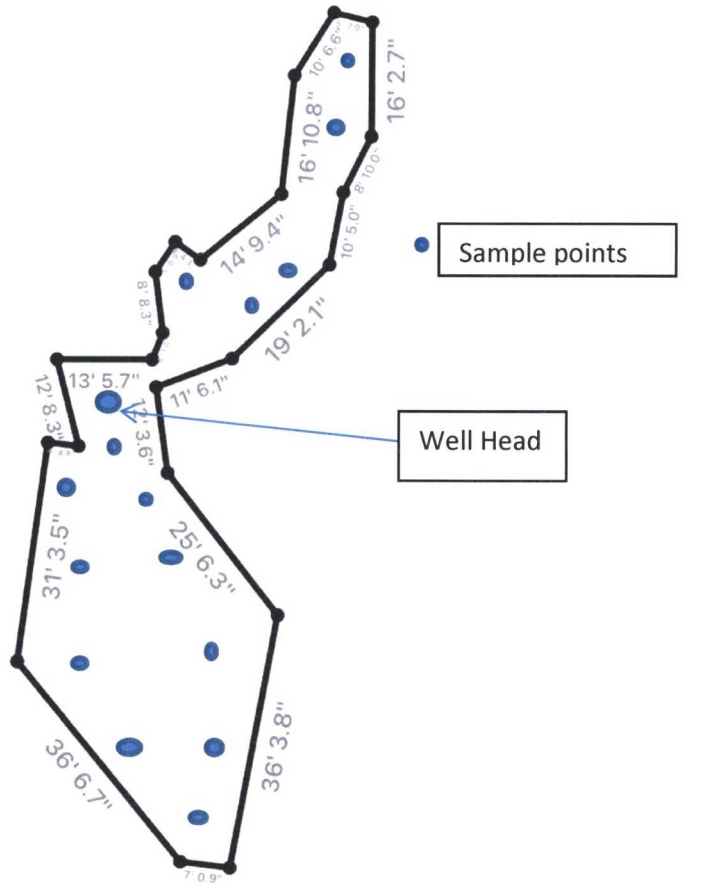
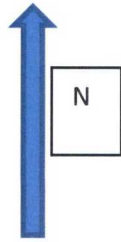
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>Michael L Dent</u>	Date <u>9-25-18</u>	Time <u>9:00 AM</u>	Received by: (Signature) <u>Vern Andrews</u>	Date <u>09-25-18</u>	Time <u>9:03</u>	Lab Use Only Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3 AVG Temp °C <u>40</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 laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.





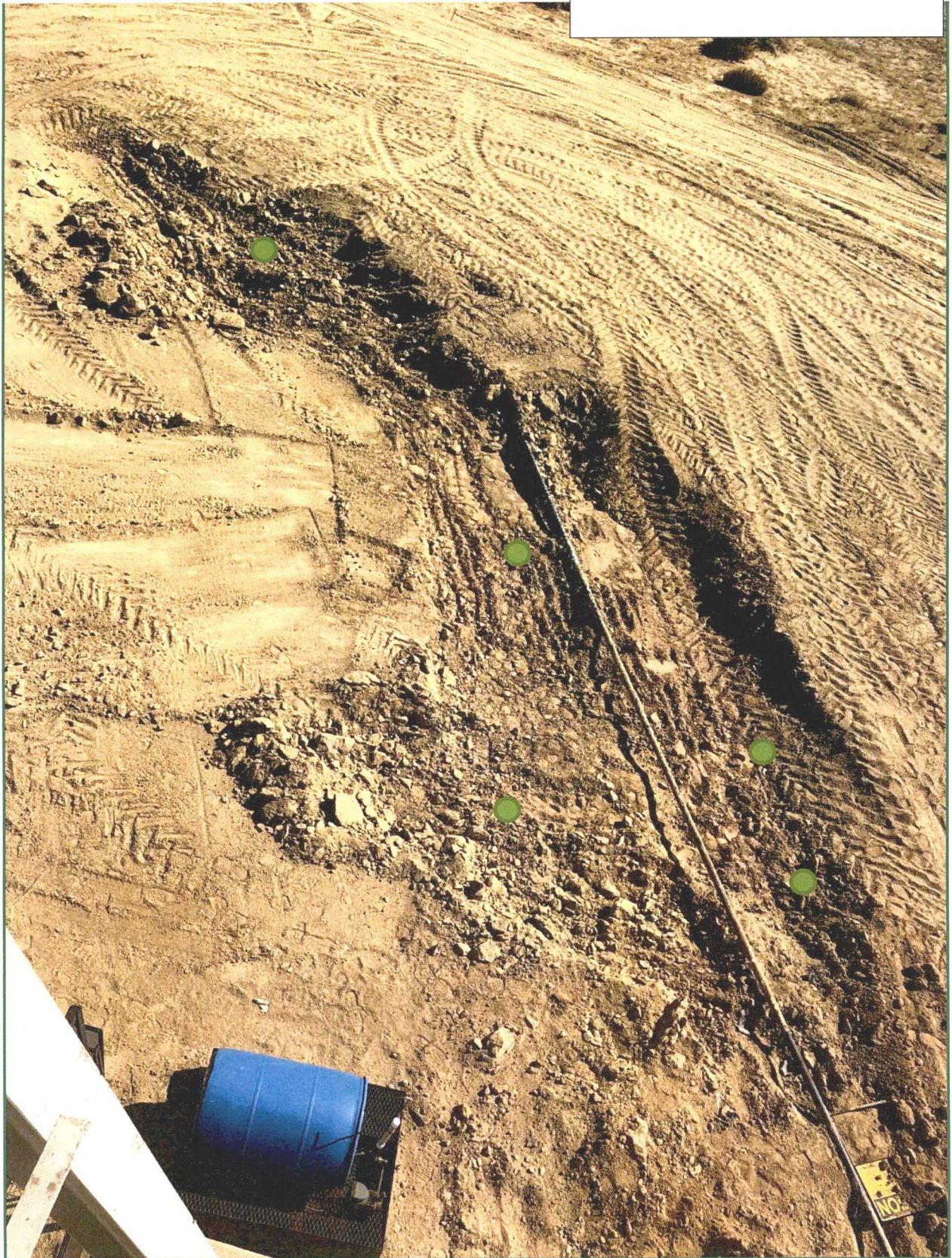
Plan 1 - Horizontal
2261.23 ft² / 315' 9.6"

Blue dots the south sample points

Yellow Middle sample points



Green north sample points



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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company – NNOGC Exploration & Production, LLC	Contact – Vern O Andrews	
Address – 7415 East Main St., Farmington, NM 87410	Telephone No. – 505-327-4892	
Facility Name – NAVAJO TRIBE AR #006	Facility Type – Well location	
Surface Owner - Navajo	Mineral Owner - Navajo	API No. – 30-045-21445

LOCATION OF RELEASE

Unit Letter O	Section 27	Township 26N	Range 18W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude 36.45369 Longitude -108.74407 NAD83

NATURE OF RELEASE

Type of Release – Wellhead – stuffing box packing leak	Volume of Release – 83.75 bbls	Volume Recovered – 0 bbls
Source of Release – polish rod stuffing box packing on wellhead failed	Date and Hour of Occurrence – Between 8:00 am 8-10-18 & 11:45 am 8-11-18	Date and Hour of Discovery 11:45 am 8-11-18
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Vanessa Fields, NMOCD, Steve Austin, NNEPA, Whitney Thomas, Farmington BLM	
By Whom? Vern Andrews	Date and Hour – 8-12-18 7:30 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

NMOCD

DEC 07 2018

DISTRICT III

Describe Cause of Problem and Remedial Action Taken.*

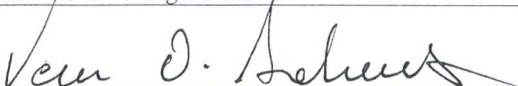
Spill info-

Approximately 83.75 bbls of produced water and crude oil (69.31 bbls water and 14.44 bbls oil) released from a wellhead stuffing box packing failure. Initial notice of a spill was @ 11:45am by NNOGC upper management... the fire department was on location and had used shovels to build small dirt berms to contain the spill and keep it on the well pad until the lease operator arrived. The pumping unit and wellhead was shut in @ 12:40pm by a lease operator. A HydroVac truck and backhoe were dispatched immediately but did not arrive to location until 3:20pm. The area of contaminated soil and standing water and oil was cleaned up with the HydroVac truck, a backhoe and 1 dumptruck. All contaminated soil along with pooled produced water and produced oil was hauled to Industrial Ecosystems' Landfarm.

Describe Area Affected and Cleanup Action Taken.*

Impacted soil will be removed and transported to IEI Landfarm for remediation. The wellhead stuffing box packing will be repaired.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 

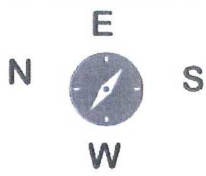
Printed Name: Vern O. Andrews

OIL CONSERVATION DIVISION

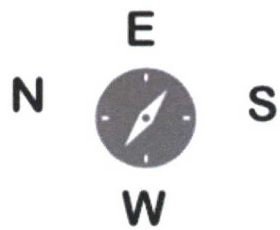
Approved by Environmental Specialist:

Title: Contract Superintendent	Approval Date:	Expiration Date:	
E-mail Address: vern@walsheng.net	Conditions of Approval:	Attached <input type="checkbox"/>	
Date: 6-26-18 Phone: 505-320-1763			

* Attach Additional Sheets If Necessary



NAVAJO TRIBAL AR-6 SPILL AREA
30-045-21445





Plan 3 - Horizontal

2523.49 ft²

361' 8.7"







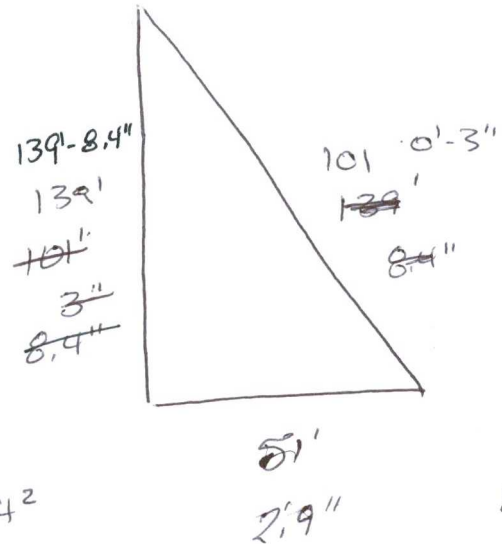
BLM- 564-7600
 NMOC- 334-6178

120 H₂O
 25 OIL (17%)
 145

69.31 BBL WATER
 14.44 BBL OIL

NAVAJO TRIBE AR #6
 O-27-T26N-R18W
 36.45369 -108.74407
 API # 30-045-21445

AREA OF TRIANGLE =
 $\frac{1}{2} b \times h =$



400/22

DUMP TRUCK -
 12 YARDS -

VAC TRUCK -
 80 BBLs -

15 YARDS

27 YARDS

$$A = 3544.5 \text{ ft}^2$$

$$A = 1405.99 \text{ ft}^3$$

$$A = 52 \text{ YARDS}$$

8.4
 3
 2.9"

$$\text{AVE} = 4.76''$$

CONVERT TO FT =

$$0.39667$$

SOIL POROSITY =		MIN	MAX	POTENTIAL FLUID	
SILTY SAND -	0.25	0.49		351.4975 ft ³	688.9351 ft ³
				68 BBLs	133.5 BBLs
CLAYRY SAND	0.15	0.37		210.8985 ft ³	520.2163 ft ³
				7.8 yds 40.9 BBLs	19.24 yds 100.8 BBLs

84 BBLs
 CALCULATED
 SPILL

To: Brandon Powell; Vanessa Fields (Vanessa.Fields@state.nm.us); Whitney Thomas; Steve Austin
Subject: NNOGC- Navajo Tribe AR # 006 Spill Info

NNOGC Exploration and Production, LLC.

Navajo Tribe AR #006

Unit O-27-T26N-R18W

Lat: 36.45369 Long: -108.74407

Spill info- 1406 square ft area affected on the well pad, 2.5" depth.

Approximately 83.75 bbls of produced water and crude oil (69.31 bbls water and 14.44 bbls oil) released from a wellhead stuffing box packing failure. Initial notice of a spill was @ 11:45am by NNOGC upper management... the fire department was on location and had used shovels to build small dirt berms to contain the spill and keep it on the well pad until the lease operator arrived. The pumping unit and wellhead was shut in @ 12:40pm by a lease operator. A HydroVac truck and backhoe were dispatched immediately but did not arrive to location until 3:20pm. The area of contaminated soil and standing water and oil was cleaned up with the HydroVac truck, a backhoe and 1 dumptruck. All contaminated soil, produced water and produced oil was hauled to Industrial Ecosystems' Landfarm.

Thank you,
Vern Andrews
505-320-1763
vern@walsheng.net

CAM TO PLAN APP.