District J
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-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or				
Proposed Alternative Method Permit or Closure Plan Application				
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,				
or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request				
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.				
1. Operator: Enduring Resources, LLC OGRID #: 372286				
Address: 200 Energy Court, Farmington New Mexico 87401				
Facility or well name: Shiotani 8				
API Number:OCD Permit Number:				
U/L or Qtr/Qtr K Section 32 Township 30N Range 12W County: San Juan				
Center of Proposed Design: Latitude 36.7665 Longitude -108.1255 NAD83				
Surface Owner: Federal State Private Tribal Trust or Indian Allotment				
2.				
Pit: Subsection F, G or J of 19.15.17.11 NMAC				
Temporary: Drilling Workover				
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no				
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other				
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D				
3. ************************************				
■ Below-grade tank: Subsection I of 19.15.17.11 NMAC				
Volume: 95 bbl Type of fluid: Recycled oil				
Tank Construction material: Steel MAR 0 4 2019				
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow stur-off				
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other				
Liner type: Thicknessmil				
4. Alternative Method:				
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.				
5.				
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)				
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)				
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet				

☐ Alternate. Please specify

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC	
8. Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: □ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. □ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
- v isual inspection (certification) of the proposed site; Aerial photo; satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Yes N					
Temporary Pit Non-low chloride drilling fluid					
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No				
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No				
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No				
Permanent Pit or Multi-Well Fluid Management Pit					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No				
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No				
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No				
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No				
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:					
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	15.17.9 NMAC				

2				
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are			
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
3. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	Iluid Management Dit			
Alternative Cavitation P&A Permanent Pit Below-grade Tank Multi-well Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	iuid Management Pit			
4.	•			
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC				
is. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou brovided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.				
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No			
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Yes No NA				
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No			
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site				
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No			
Within 300 feet of a wetland.	1e No			
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No			

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No		
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No		
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map			
Within a 100-year floodplain FEMA map	☐ Yes ☐ No☐ Yes ☐ No		
- PEWA map			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plants are check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC		
Operator Application Certification:			
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.		
Name (Print): Title:			
Signature: Date:			
e-mail address: Telephone:			
18. OCD Approval: Permit Application (including closure plant) Closure Plant (only) CD Conditions (see attachment)	,		
OCD Representative Signature: Approval Date: 32	6/19		
Title: OCD Permit Number:	-/·/		
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 1/29/2019			
20.			
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-lo ☐ If different from approved plan, please explain.	op systems only)		
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in	dicate, by a check		
mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longitude NAD: 1927			

22. Operator Closure Certification:				
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.				
Name (Print): Chad Snell	Title: HSE Tech			
Signature: 1	Date: 3-1-2019.			
e-mail address: csnell@enduringresources.com	Telephone:(505)444-0586			

Enduring Resources, LLC Below Grade Tank Closure Report

Lease Name: Shiotani 8
API No.: 30-045-28894

Description: Unit K, Section 32, Township 30N, Range 12W, San Juan County, NM

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of below-grade tanks on Enduring Resources, LLC. (Enduring) locations. This is Enduring's standard procedure for all below-grade tanks. A separate plan will be submitted for any below-grade tank which does not conform to this plan.

General Plan

1. Enduring will close below-grade tanks within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.

Closure Date is January 29, 2019

- 2. Enduring will close a below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.

 Closure Date is January 29, 2019
- 3. Enduring will close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17

 NMAC in accordance with a closure plan that the appropriate division district office approves.

 The closure report will be filed on form C-144.

Required C-144 Form is attached to this document.

4. Enduring will remove liquids and sludge from below-grade tanks prior to implementing a closure method and will dispose of the liquids and sludge in a division-approved facility. Approved facilities and waste streams include:

Envirotech Permit No. NM01-0011 and IEI Permit No. NM 01-0010B

Soil contaminated by exempt petroleum hydrocarbons

Produced sand, pit sludge and contaminated bottoms from storage of exempt wastes

Basin Disposal Permit No. NM01-005

Produced water

All liquids and sludge were removed from the tank prior to closure activities.

Enduring will remove the below-grade tank and dispose of it in a division approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
 During closure activities, the previous operator inadvertently did not complete proper closure sampling and reporting.

6. Enduring will remove any on-site equipment associated with a below-grade tank unless the equipment is required for some other purpose.

This location is still in production. All other on-site equipment will be utilized in the continued production of oil and gas.

7. Enduring will test the soils beneath the below-grade tank to determine whether a release has occurred. At a minimum 5 point composite sample will be collected along with individual grab samples from any area that is wet, discolored or showing other evidence of a release. Samples will be analyzed for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 8015M or other EPA method that the division approves, does not exceed 100mg/kg; and the chloride concentration, as determined by EPA method 9056A or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. Enduring will notify the division of its results on form C-141.

A five point composite sample was taken of the pit using a hand auger at the depth of 5 Ft. All samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

Components	Test Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	0.00117 mg/kg
BTEX	EPA SW-846 8021B or 8260B	50	0.008913 mg/kg
TPH	EPA SW-846 8015M	100	19.721 mg/kg
Chlorides	EPA 9056A	250 or background	41 mg/kg

8. If Enduring or the division determines that a release has occurred, Enduring will comply with 19.15.3.116 NMAC and 19.15.1.19NMAC as appropriate.

No Release has occurred at this location

9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, Enduring will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; recontour and re-vegetate the site.

The site has been backfilled, and will be recontoured and revegetated upon P&A of the wellsite.

- 10. Notice of Closure operations will be given to the Aztec Division District III office between 72 hours and one week prior to the start of closure activities via email or verbally.

 The notification will include the following:
 - i. Operator's name
 - ii. Well Name and API Number
 - iii. Location by Unit Letter, Section, Township, and Range

Notification was provided to Cory Smith and Vanessa Fields with the Aztec office of the OCD via email on January 24th, 2019; see attached email printout.

The surface owner shall be notified of Enduring's proposal to close the BGT as per the approved closure plan using certified mail, return receipt requested.

The land owner was notified via certified mail; see attached printout.

11. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

This site will be recontoured and revegitated once plugging and abandoning activities have been completed. The site will be recontoured to match the above mentioned specifications.

12. A minimum of 4 feet of cover shall be achieved and the cover shall include 1 foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The area has been backfilled to match these specifications.

13. Enduring will seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will be used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

The site will be reclaimed per Surface Owner specifications once plugging and abandoning activities have been completed.

- 14. All closure activities will include proper documentation and be available for review upon request and will be submitted in closure report form to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on form C-144 and incorporate the following:
 - Proof of closure notice to division and surface owner; attached
 - Details on capping and covering, where applicable; per OCD Specifications
 - Confirmation sampling analytical results; attached
 - Disposal facility name(s) and permit number(s); attached
 - Soil backfilling and cover installation; per OCD Specifications
 - Re-vegetation application rates and seeding techniques, (or approved alternative to re-vegetation requirements if applicable); **pursuant to Surface Owner**
 - Photo documentation of the site reclamation. N/A

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

Responsible Party: Enduring Resources				OGRID: 3	372286
Contact Name: Chad Snell		Contact T	Celephone: 505-444-0586		
Contact emai	il: csnell@e	nduringresources	s.com	Incident #	‡ (assigned by OCD):
Contact mail	ing address:	200 Energy Cour	rt	Farmingt	ton, New Mexico 87401
		_	Location	of Release S	
Latitude	36.518680	8	(NAD 83 in dec	Longitude cimal degrees to 5 deci	
Site Name: Sl	hiotani 8			Site Type:	: Well Site
Date Release	Discovered:	7/30/2018		API# (if ap	pplicable) 30-045-28894
Unit Letter	Section	Township	Range	Cou	inty
K	32	30N	12W	San Jua	<u> </u>
☐ Crude Oil		(s) Released (Select al Volume Release Volume Release	d (bbls)	calculations or specific	Volume Recovered (bbls) Volume Recovered (bbls):
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?				hloride in the	☐ Yes ☐ No
Condensate Volume Released (bbls)			Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			d (Mcf)		Volume Recovered (Mcf)
Other (describe) Volume/Weight Released (provide units)			Released (provide	units)	Volume/Weight Recovered (provide units)
	activities t	ook place on 1/29 se at this location		ere collected and	sent in for analysis. Returned results confirmed that a

Form C-141 Page 6

State of New Mexico Oil Conservation Division

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: Chad Snell Title: HSE TECH		
Signature: Date:		
email: csnell@enduringresources.com Telephone: (505)444-0586		
OCD Only		
Received by: Date:		
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: Date:		
Printed Name: Title:		

Shiotani 8 Narrative.

1/24/201

On Thursday January 24th 2019, Enduring Resources, LLC notified the NMOCD that BGT closure activities would take place at the Shiotani 8 beginning on Tuesday January 29th at 9:00am see attached "Email Notification". The surface owner was also notified by certified mail see attached "Notification letter".

1/29/2019

Began BGT closure activities, once the 43 bbl produced water AST was moved a five point composite sample was collected by using a hand auger. Enduring Resources personnel augured to the depth of 5 ft. and could not go any further due to a sandstone layer, samples were collected at this depth. The Samples were analyzed for 8021(BTEX), 8015(GRO/DRO/MRO) and chlorides.

2/5/2019

Analytical Report was received and confirmed that a spill did not occur the returned results are below BGT pit rule standards (.2 ppm Benzene, 50 ppm BTEX, 100 ppm TPH, 250 ppm Chlorides) see attached "Analytical Report" sample ID "43bbl". No remediation needs to occur.



ENDURING RESOURCES

ON-SITE FORM

Section 32 Township 30 N Range 12 N County Sun Truen State NM Contractors On-Site 23 L Time On-Site 8:58 cm Time Off-Site 12:55 pm Spill Amount bbls Spilled (Oil/Produced Water/Other Recovered PS bbls Spilled (Oil/Produced Water/Other Spill Area Security Recovered PS bbls Spilled (Oil/Produced Water/Other Spill Area Security Recovered PS bbls P: 5 security Recovered PS bbls PS bbls P: 5 security Recovered PS bbls PS bbls PS bbls P: 5 security Recovered PS bbls PS	Well Name Shiotan: 8	API#_30-045-28894/
Spill Amount	Section 32 Township 30 N Range	12w County San Juan State NM
Land Use (Range / Residential / Tribe PC: Nate.) Spill Area x C deep P5 95 bbL P: 1 Sample Cost X X X 93 bbL P: 1 Sample Location H3 BBL P: 1 Sample Location H3 BBL P: 1 Sample Location H3 BBL P: 1 Sample Location See. See. See. See. See. See. See. See	Contractors On-Site	Time On-Site 8:58 <m 12:55em<="" off-site="" td="" time=""></m>
Site Diagram Took 5 Point Composite Sample Using Auger Augered to Sende @ 5'	Spill Amountbbls Spilled (Oil/Produced	Water/Other) Recovered
Site Diagram Took 5 Point Composite Sample Using Auger Augered to Sfl. Hit bed rock/ Sand Stare large. Collected Sample @ 5'	Land Use (Range / Residential / Tribe Private.	_) Spill Areax deep
Samples	Site Diagram Took 5 Point Composite San Stil. Hit bed rock/ Sand Stan Comments	Sample Location Sample Location Sample Location

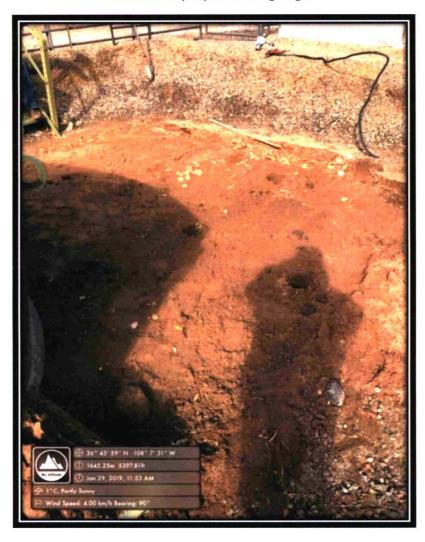
Time	Sample #	Sample Description	Characteristics	OVM (ppm)	Analysis Requested
	NA	100 Standard	NÄ		NA
11:00am		95 BBL	Brown, No oder Sund		8021, 8015 Chloride
W: 55en		43 386	Brown, No oder Sund Brown, No oder.		8021, 8015 Chlorida
			•	}	
_	1				
`			· •		

Name (Print) Chad Snell	Date_ 1-29-/9
Name (Signature)	Company Enducin Resources



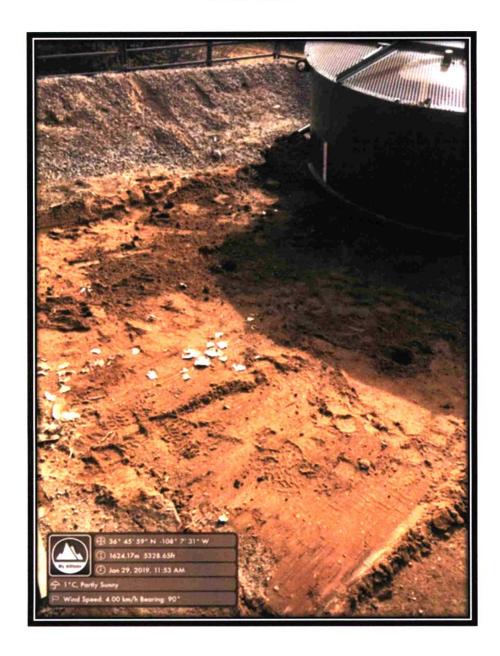
Enduring Resources, LLC BGT Closure Report Shiotani 8 30-045-28894

Photo: Sample points using Auger





Enduring Resources, LLC BGT Closure Report Shiotani 8 30-045-28894



Chad Snell

From:

Chad Snell

Sent:

Thursday, January 24, 2019 7:10 AM

To:

'Smith, Cory, EMNRD'; Fields, Vanessa, EMNRD

Cc:

James McDaniel; Kyle Walter

Subject:

Shiotani 8 BGT Closure

Vanessa/Cory,

Please accept the this email as the required notification for BGT closure activities at the Shlotani 8: 30-045-28894, SEC:32, TWN 33N, RGE:12W. Closure activities will begin on January 29th at 9:00am. If you have any questions please let me know.

Thanks.

Chad Snell HSE Tech Enduring Resources (505) 444-0586.



Enduring Resources, LLC BGT Closure Notice Shiotani 8 30-045-28894

Hello,

I would like to notify you that Enduring Resources, LLC will be performing BGT closure activities at the Shiotani 8 (API: 30-045-28894) SEC: 32, TWN:33N, RGE: 12W. Closure activites will begin on January 29th, 2019 at 9:00am. This is the required notice informing you of the scheduled activites that will be performed.

Thank you,

Chad Snell

HSE TECH

Enduring Resources

Cell: (505)444-0586

csnell@enduringresources.com

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY			
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. 	x Neuen Martin Agent Addressee			
Attach this card to the back of the mailplece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item: 1? Pyes			
1. Article Addressed to: (NHWOOD LITTIAN RUSE	If YES, enter delivery address below:			
Trust	A. A			
822 Rd 3000	3. Service Type			
ATTER NINA 87410	☐ Certified Mail® ☐ Priority Mail Express®☐ Registered ☐ Return Receipt for Merchandise			
	☐ Insured Mail ☐ Collect on Delivery			
\$18 619 M 65 618 11 76 6 6 6 6 7 1 0 1 0 1 0 1 0 1 1	4. Restricted Delivery? (Extra Fee) ☐ Yes			
2. Article Number (Transfer from service label) 7013 1090	0001 7321 4634			
PS Form 3811, July 2013 Domestic Ret	urn Receipt			

U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) For delivery information visit our website at www.usps.com 7321 Postage Certifled Fee 1000 \$0.00 TA Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) 1090 Total Postage & Fees \$ Street, Apt. No., or PO Box No. 7013 City, State, ZIP+4 PS Form 3800. August 2006 See Reverso for Instructions UNITED STATES POSTAL SERVICE

22 JAN 123



First-Class Mall Postage & Fees Pald USPS Permit No. G-10

Sender: Please print your name, address, and ZIP+4® in this box

Chad Snell 200 Energy Court Farmington, NM 87401

01-101700

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- A record of delivery kept by the Postal Service for two years

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- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "Restricted Delivery".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 (Reverse) PSN 7530-02-000-9047



ANALYTICAL REPORT

February 05, 2019

Enduring Resources

Sample Delivery Group:

L1065344

Samples Received:

01/30/2019

Project Number:

Description:

Shiotani 8

Report To:

Chad Snell

200 Energy Court

Farmington, NM 87401

Entire Report Reviewed By:

Daphne Richards

Vapline R Richards

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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ONE LAB. NATIONWIDE.



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Al: Accreditations & Locations					
Sc: Sample Chain of Custody					





Cn	













SAMPLE SUMMARY

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95 BBL L1065344-01 Solid			Collected by Chad Snell	Collected date/time 01/29/19 11:00	Received date/time 01/30/19 08:45
Method Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1230776	1	01/31/19 13:14	01/31/19 13:25	KDW
Wet Chemistry by Method 9056A	WG1231200	1	02/02/19 15:00	02/02/19 20:22	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1231522	1	01/30/19 21:21	02/01/19 23:08	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231588	1	02/01/19 13:23	02/02/19 02:14	DMW
			Collected by	Collected date/time	Received date/time
43 BBL L1065344-02 Solid			Chad Snell	01/29/19 11:53	01/30/19 08:45
Method	Batch	Dilution	Preparation	Analysis	Analyst
			date/time	date/time	
Total Solids by Method 2540 G-2011	WG1230776	1	01/31/19 13:14	01/31/19 13:25	KDW
Wet Chemistry by Method 9056A	WG1231200	1	02/02/19 15:00	02/02/19 20:38	ELN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1231522	1	01/30/19 21:21	02/01/19 23:32	вмв
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231588	1	02/01/19 13:23	02/02/19 02:27	DMW

























2

²Tc















All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards Project Manager

Japhne R Richards

95 BBL

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.6		1	01/31/2019 13:25	WG1230776





Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	32.0	B	11.3	1	02/02/2019 20:22	WG1231200





Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.00106		0.000564	1	02/01/2019 23:08	WG1231522
Toluene	ND		0.00564	1	02/01/2019 23:08	WG1231522
Ethylbenzene	ND		0.000564	1	02/01/2019 23:08	WG1231522
Total Xylene	ND		0.00169	1	02/01/2019 23:08	WG1231522
TPH (GC/FID) Low Fraction	ND		0.113	1	02/01/2019 23:08	WG1231522
(S) a.a.a-Trifluorotoluene(FID)	96.2		77.0-120		02/01/2019 23:08	WG1231522
(S) a,a,a-Trifluorotoluene(PID)	99.9		72.0-128		02/01/2019 23:08	WG1231522







⁹Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier RDL	(dry) Dilutio	on Analysis	Batch
Analyte	mg/kg	mg/k	g	date / time	
C10-C28 Diesel Range	ND	4.51	1	02/02/2019 02:14	WG1231588
C28-C40 Oil Range	ND	4.51	1	02/02/2019 02:14	WG1231588
(S) o-Terphenyl	121	18.0-	148	02/02/2019 02:14	WG1231588

43 BBL

SAMPLE RESULTS - 02 L1065344

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Collected date/time: 01/29/19 11:53

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	90.4		1	01/31/2019 13:25	WG1230776



Wet Chemistry by Method 9056A

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	41.1	В	11.1	1	02/02/2019 20:38	WG1231200



Volatile Organic Compounds (GC) by Method 8015/8021

	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		
Benzene	0.00117		0.000553	1	02/01/2019 23:32	WG1231522	
Toluene	ND		0.00553	1	02/01/2019 23:32	WG1231522	
Ethylbenzene	ND		0.000553	1	02/01/2019 23:32	WG1231522	
Total Xylene	ND		0.00166	1	02/01/2019 23:32	WG1231522	
TPH (GC/FID) Low Fraction	ND		0.111	1	02/01/2019 23:32	WG1231522	
(S) a,a,a-Trifluorotoluene(FID)	96.6		77.0-120		02/01/2019 23:32	WG1231522	
(S) a.a.a-Trifluorotoluene(PID)	101		72.0-128		02/01/2019 23:32	WG1231522	



Semi-Volatile Organic Compounds (GC) by Method 8015

9		, , ,				
	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	5.41		4.43	1	02/02/2019 02:27	WG1231588
C28-C40 Oil Range	14.2		4.43	1	02/02/2019 02:27	WG1231588
(S) o-Terphenyl	114		18.0-148		02/02/2019 02:27	WG1231588

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

Total Solids by Method 2540 G-2011

L1065344-01,02

Method Blank (MB)

Analyte

(MB) R3380415-1 01/31/19 13:25

MB Result **MB** Qualifier MB MDL MB RDL %

0.000 Total Solids

L1065344-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1065344-02 01/31/19 13:25 • (DUP) R3380415-3 01/31/19 13:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	90.4	87.8	1	2.84		10

Laboratory Control Sample (LCS)

(LCS) R3380415-2 01/31/19 13:25

Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier Analyte % % % Total Solids 50.0 50.0 100 85.0-115

7 of 13

QUALITY CONTROL SUMMARY L1065344-01,02

ONE LAB. NATIONWIDE

Method Blank (MB)

Analyte

Chloride

(MB) R3381205-2 02/02/19 17:11

Wet Chemistry by Method 9056A

MB Result MB MDL MB RDL **MB** Qualifier mg/kg mg/kg mg/kg 7.72 0.795 10.0



L1065677-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1065677-04 02/02/19 21:42 • (DUP) R3381205-6 02/02/19 21:57

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	12400	12100	50	1.83		15



L1065677-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1065677-13 02/03/19 00:53 • (DUP) R3381205-7 02/03/19 01:08

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	3220	3420	5	5.96		15





Laboratory Control Sample (LCS)

(LCS) R3381205-3 02/02/19 17:27

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	213	106	80.0-120	

L1064663-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064663-02 02/02/19 17:59 • (MS) R3381205-4 02/02/19 18:15 • (MSD) R3381205-5 02/02/19 18:31

,,	Spike Amount (dry)	Original Result (dry)	MS Result (dry)		MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	597	12000	13300	13300	211	210	1	80.0-120	EV	EV	0.0183	15

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1065344-01,02

Method Blank (MB)

(MB) R3380781-5 02/01/19	9 15:02			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000387	7	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.0			77.0-120
(S) a.a.a-Trifluorotoluene(PID)	103			72.0-128

Volatile Organic Compounds (GC) by Method 8015/8021













Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3380781-1 02/01/1	19 13:00 . (LCSD	D3380781-2	02/01/19 13:24							
(LCS) KSS60781-1 027017	13 13.00 - (LC3D	1 13360761-2	02/01/13 13.24							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.0500	0.0439	0.0461	87.9	92.1	76.0-121			4.70	20
Toluene	0.0500	0.0434	0.0452	86.8	90.5	80.0-120			4.20	20
Ethylbenzene	0.0500	0.0458	0.0482	91.6	96.5	80.0-124			5.15	20
Total Xylene	0.150	0.137	0.143	91.1	95.4	37.0-160			4.65	20
(S) a.a.a-Trifluorotoluene(FID)				97.8	97.7	77.0-120				
(S) a.a.a-Trifluorotoluene(PID)				102	101	72.0-128				







Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3380781-3 02/01/19 13:49 • (LCSD) R3380781-4 02/01/19 14:13											
		Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
	TPH (GC/FID) Low Fraction	5.50	5.92	6.30	108	115	72.0-127			6.25	20
	(S) a.a.a-Trifluorotoluene(FID)				107	108	77.0-120				
	(S) a,a,a-Trifluorotoluene(PID)				109	111	72.0-128				

QUALITY CONTROL SUMMARY

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Semi-Volatile Organic Compounds (GC) by Method 8015

L1065344-01,02

Method Blank (MB)

(MB) R3380671-1	02/01/19	18:26	
		MB Result	N
			_

Annual Control of the				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.315	ī	0.274	4.00
(S) o-Terphenyl	121			18.0-148



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3380671-2 02/01/19 18:40 • (LCSD) R3380671-3 02/01/19 18:54										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Extractable Petroleum Hydrocarbon	50.0	36.6	37.0	73.2	74.0	50.0-150			1.09	20
C10-C28 Diesel Range	50.0	39.3	39.7	78.6	79.4	50.0-150			1.01	20
(S) o-Terphenyl				125	126	18.0-148				







L1065374-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065374-03 02/02/19 01:32 • (MS) R3380671-4 02/02/19 01:46 • (MSD) R3380671-5 02/02/19 02:00												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Extractable Petroleum Hydrocarbon	50.0	ND	36.9	44.2	73.8	88.4	1	50.0-150			18.0	20
C10-C28 Diesel Range	50.0	ND	42.0	49.7	84.0	99.4	1	50.0-150			16.8	20
(S) o-Terphenyl					122	135		18.0-148				





ONE LAB. NATIONWIDE

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative

GLOSSARY OF TERMS

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).



RDL Reported Detection Limit. RDL (drv) Reported Detection Limit.



Recovery. Rec. RPD Relative Percent Difference. Sample Delivery Group. SDG



Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.



Not detected at the Reporting Limit (or MDL where applicable).



The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.



If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.



These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal

for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges



The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control Original Sample sample. The Original Sample may not be included within the reported SDG.

This column provides a letter and/or number designation that corresponds to additional information concerning the result

reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect

or report for this analyte. Uncertainty

times of preparation and/or analysis

Confidence level of 2 sigma A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

Quality Control Summary (Qc)

(Radiochemistry)

Case Narrative (Cn)

(S)

Analyte

Dilution

Limits

Qualifier

Result

This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material

Sample Chain of Custody (Sc)

This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.

Sample Results (Sr)

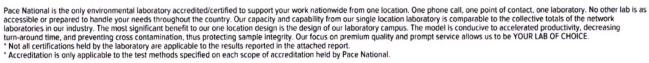
This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and

Sample Summary (Ss)

Qualifier	Description
В	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS





State Accreditations

٠	Alabama	40660	Nebraska	NE-OS-15-05
	Alaska	17-026	Nevada	TN-03-2002-34
	Arizona	AZ0612	New Hampshire	2975
	Arkansas	88-0469	New Jersey-NELAP	TN002
	California	2932	New Mexico 1	n/a
	Colorado	TN00003	New York	11742
	Connecticut	PH-0197	North Carolina	Env375
	Florida	E87487	North Carolina 1	DW21704
	Georgia	NELAP	North Carolina ³	41
	Georgia 1	923	North Dakota	R-140
	Idaho	TN00003	Ohio-VAP	CL0069
	Illinois	200008	Oklahoma	9915
	Indiana	C-TN-01	Oregon	TN200002
	lowa	364	Pennsylvania	68-02979
	Kansas	E-10277	Rhode Island	LA000356
	Kentucky 16	90010	South Carolina	84004
	Kentucky ²	16	South Dakota	n/a
	Louisiana	Al30792	Tennessee 14	2006
	Louisiana 1	LA180010	Texas	T 104704245-17-14
	Maine	TN0002	Texas ⁵	LAB0152
	Maryland	324	Utah	TN00003
	Massachusetts	M-TN003	Vermont	VT2006
	Michigan	9958	Virginia	460132
	Minnesota	047-999-395	Washington	C847
	Mississippi	TN00003	West Virginia	233
	Missouri	340	Wisconsin	9980939910
	Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ACCOUNT:

Enduring Resources

PROJECT:

SDG:

L1065344

DATE/TIME:

02/05/19 14:40





















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Enduring Resources, LLC BGT Closure Report Shiotani 8 30-045-28894

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