District I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico

Form C-141 Revised October 10, 2003

District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410

Energy Minerals and Natural Resources
Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

District IV 1220 S. St. Francis Dr., Samon Nr. 875@3 PM 1 02 **Release Notification and Corrective Action**

	OPERATOR Initial Report Final Report											
Name of Co	mpany: El	m Ridge Exp	oloration		(Contact: An	ny Mackey					
		Bloomfield,		-13		Telephone No.: (505) 632-3476 Ext 201						
Facility Nan	ne: Bisti C	coal 8 L CON	12		l	Facility Typ	e: Gas Well					
Surface Own	ner: Feder	al		Mineral O	wner:				Lease N	lo.: 14-20-60	3-324	
						I OF DEI	EAGE			<u>,</u>		
Huit Latton	Castina	Toursalin	D			OF REI		174 /11	In the I down	Constant		
Unit Letter L	Section 8	Township 25N	Range 12W	Feet from the 2470		South Line FSL	Feet from the 1015		Vest Line WL	County San Juan		
_	<u> </u>	2011		2			1015		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Sun Juan		
	Latitude: <u>36.415227</u> Longitude: <u>-108.140292</u>											
Type of Release: Produced Water Volume of Release: Unknown Volume Recovered: Unknown												
Source of Rel							lour of Occurrence			Hour of Disco		
					Historical							
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required If YES, To Whom?												
By Whom? Date and Hour												
Was a Watercourse Reached? ☐ Yes ☒ No					If YES, Vo	lume Impacting t	he Wate	rcourse.				
If a Watercourse was Impacted, Describe Fully.*												
Describe Cause of Problem and Remedial Action Taken.* Produced Water from gas well at the mentioned location formerly discharged into an earthen pit on location. The well has been altered to no longer drain into an earthen pit.												
Describe Area Affected and Cleanup Action Taken.* Blow sand was removed from the earthen pit, and approximately three (3) cubic yards of 'production sludge' was removed from the earthen pit. A 5-point composite sample was collected from approximately one (1) foot below the earthen pit once it was removed. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) via USEPA Method 418.1, and in Envirotech's laboratory for benzene and BTEX via USEPA Method 8021 and for total chlorides via USEPA Method 4500B. The sample returned results below the 'Pit Rule' standards of 100 mg/kg TPH, 0.2 mg/kg benzene, 50 mg/kg BTEX and 250 mg/kg total chlorides, confirming that a release had not occurred. Analytical results are attached for your reference.												
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:	1						OIL CONS	SERV	ATION	DIVISION	Ī	
Printed Name	: Ms. Amy	Mackey			1	Approved by	District Superviso	or:				
Title: Admini	strative Ma	nager			I	Approval Dat	e:	I	Expiration	Date:		
E-mail Addre		Q)5-632-3476 Ext 2		Conditions of	`Approval:			Attached [コ	
Attach Addit	- VC/ / \	ets If Necess		J JJE J TTO LACE								

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, 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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

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

District Office.
Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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.
Operator: Elm Ridge Exploration OGRID #: 149052
Address: P.O. Box 156; Bloomfield, NM 87413
Facility or well name: Bisti Coal 8 L COM 2
API Number: 3004528779 OCD Permit Number:
U/L or Qtr/Qtr L Section 8 Township 25N Range 12W County: San Juan
Center of Proposed Design: Latitude <u>36.415227</u> Longitude <u>-108.140292</u> NAD: □1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
☑ <u>Pit</u> : Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A
☐ Lined ☑ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L 15' x W 15' x D 4'
3. Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Not labeled Liner type: Thicknessmil HDPE PVC Other
5. Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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, hinstitution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	nospital,			
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 19.15.3.103 NMAC 				
Administrative Approvals 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: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.				
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 acceptable someterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying page above-grade tanks associated with a closed-loop system.				
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No			
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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No			
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	☐ Yes ☐ No			
Within 500 feet of a wetland.	☐ 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	☐ Yes ☐ No			
Within a 100-year floodplain. FEMA map	☐ 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: or Permit Number:
Closed-loop Systems 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. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - 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:
☐ Previously Approved Operating and Maintenance Plan API Number:
13
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 attached. 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 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 Gil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control 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
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 Closed-loop System Alternative 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the 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 F 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 G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.I Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.							
Disposal Facility Name: Disposal Facility Permit Number:							
Disposal Facility Name: Disposal Facility Permit Number:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please provide the information below) No							
Required for impacted areas which will not be used for future service and operations: 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							
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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be						
Ground water is less than 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 ☐ NA						
Ground water is between 50 and 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						
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 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 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ 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						
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	☐ Yes ☐ No						
Within a 100-year floodplain FEMA map	☐ Yes ☐ No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a 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 F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC 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 Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 be achieved) 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 G of 19.15.17.13 NMAC							

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurately	ate and complete to the best of my knowledge and belief.
Name (Print):	Title:
Signature:	Date:
E-mail address:	Telephone:
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan	lan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of to section of the form until an approved closure plan has been obtained and the closure plan	to implementing any closure activities and submitting the closure report. The completion of the closure activities. Please do not complete this
	Zi Ciotale Completion David
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alterna ☐ If different from approved plan, please explain.	ative Closure Method Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drift two facilities were utilized. Disposal Facility Name:	Disposal Facility Permit Number: NM-01-0011 Disposal Facility Permit Number: Nm-o1-0011 r in areas that will not be used for future service and operations?
25.	IM-01-0011
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requirer Name (Print): Ms. Any Mackey Signature: E-mail address amackey1@elmridge.net	

Elm Ridge Exploration Bisti Coal 8 L COM 2 Earth Pit Closure Project No. 03056-0186 Closure Date: 8/24/09

Earthen Pit Closure Checklist

- Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close all former earthen pits prior to the closure date agreed upon by the New Mexico Oil Conservation Division (NMOCD) of December 31, 2009.
 Closure date for the earth pit located at Bisti Coal 8 L COM 2 well site is August 24, 2009.
- 2) In accordance with Subsection A of 19.15.17.13 NMAC, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close any earthen pits at a date the division requires because of imminent danger to fresh water, public health or the environment.
 - None of the earthen pits to be closed by Elm Ridge Exploration are deemed an imminent risk to the environment, public health, or to fresh or public water.
- 3) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close earthen pits first which seem to pose a greater risk to fresh water, public health, or the environment. This will be determined by the locations proximity to surface water sources and distance to groundwater.
 - None of the earthen pits to be closed by Elm Ridge Exploration are deemed an imminent risk to the environment, public health, or to fresh or public water.
- 4) No less than 60 days prior to any earthen pit closure activities, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide written notification to the Santa Fe NMOCD office as well as a schedule of on-site activities, as in accordance with 19.15.17.13 Subsection J Paragraph (3) NMAC. Notification was provided to Mr. Brad Jones of the NMOCD Santa Fe Office on August 4, 2009, along with a schedule of on-site activities; see attached Notification Letter.
- 5) No less than 24 hours and no greater than one (1) week prior to earthen pit removal, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide written notification to the appropriate surface owner as well as a schedule of on-site activities, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will notify the surface owner by certified mail, return receipt requested, that the operator plans to close an earthen pit. The return receipt will be used to ensure that the surface owner has received written notification no less than 24 hours and no greater than one (1) week prior to the beginning of earth pit closure activities. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this Closure activities that will take place on tribal land will have notifications sent by certified mail, return receipt requested, to the appropriate tribal office. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will notify the Bureau of Land Management (BLM) of closure activities for wells located on federal land per a Sundry Notice, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC. All notices will be sent in such a way that the surface owner will receive notice at least 24 hours prior to the beginning of closure activities.

Notification was provided to the Bureau of Land Management on August 19, 2009; see attached Sundry Notice and Return Receipt.

- 6) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all liquids and/or sludge, to visual extents, prior to closure sampling. Material will be disposed of at Envirotech's Landfarm #2, Permit # NM-01-0011, TNT Environmental Inc. Landfarm, Permit # NM-01-0008, Industrial Ecosystems Inc. (IEI) Landfarm, Permit # NM-01-0010B, or Basin Disposal, Permit # NM-01-0005, depending on the consistence of the material removed, as in accordance with 19.15.17.13 Subsection C Paragraph (1) NMAC.
 - On August 24, 2009, approximately three (3) cubic yards of production sludge were removed from the earthen pit and disposed of at Envirotech's NMOCD permitted soil remediation facility, Landfarm #2, Permit # NM-01-0011; see attached *Bill of Lading*.
- 7) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all on-site equipment associated with this earthen pit unless it is required for some other purpose, as in accordance with 19.15.17.13 Subsection C Paragraph (2) NMAC. The equipment that meets the requirements of 19.15.9.712 Subsection A NMAC and 19.15.9.712 Subsection D Paragraph (1) will be disposed of at San Juan County Regional Landfill. Waste that is classified by 19.15.9.712 Subsection D Paragraph (2) will be sampled accordingly to determine acceptance of this material at the San Juan County Regional Landfill. Waste that is unable to be accepted at the San Juan County Regional Landfill will be submitted to the OCD on a case-by-case basis in accordance with Paragraph (3) of Subsection D of 19.15.9.712.

All on-site equipment will be used for the continued operation of the Bisti Coal 8 L COM 2 well site; see attached *Field Sheet* and *Site Photos*.

- 8) Once the earthen pit is removed to visual extents of contamination, a five (5)-point composite sample will be collected from directly below the liner(s) or at native soil. Additional discrete samples will be collected from any area that is wet, discolored or show other evidence of a release. All samples being collected will be analyzed for benzene, and total BTEX via USEPA Method 8021B, TPH via USEPA Method 418.1, and chlorides via USEPA 300.1, as in accordance with 19.15.17.13 Subsection C Paragraph (3) NMAC.
 - A 5-point composite sample was collected of native soil beneath the earthen pit and analyzed in the field for total petroleum hydrocarbons (TPH) via USEPA Method 418.1, and analyzed in the laboratory for benzene and BTEX via USEPA Method 8021B, and for total chlorides via USEPA Method 4500B. The sample returned results below the 100 mg/kg TPH standard, the 0.2 mg/kg benzene standard, the 50 mg/kg BTEX standard and the 250 mg/kg total chloride standard, confirming that a release did NOT occur.

NAME Pit Rule Standard	Benzene	BTEX	Chlorides	TPH
	0.2 mg/kg	50 mg/kg	250 mg/kg	100 mg/kg
Earth Pit Comp 1' Below Pit	< 0.0009 mg/kg	< 0.005 mg/kg	240 mg/kg	68 mg/kg

- 9) Depending on soil sample results the area will be either backfilled or the area will be excavated.
 - 1) If soil samples do not exceed the regulatory standards of 0.2 mg/kg benzene, 50 mg/kg BTEX, 100 mg/kg TPH, and 250 mg/kg or background concentration of chlorides, as in accordance with 19.15.17.13 Subsection C Paragraph (3) NMAC.

Elm Ridge Exploration Bisti Coal 8 L COM 2 Earth Pit Closure Project No. 03056-0186 Closure Date: 8/24/09

i. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, shall submit a Form C-141 with the laboratory results so that the division may review the results to determine if additional delineation is required in accordance with Paragraph (4) of Subsection C of 19.15.17.13 NMAC.

Completed Form C-141 is attached for your review.

ii. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will backfill the excavation or impacted area with non-waste containing, earthen material, in accordance with 19.15.17.13 Subsection E Paragraph (6) NMAC. A soil cover shall be installed for all backfilled excavations consisting of the background thickness of topsoil or one (1) foot of suitable material to establish vegetation at the site, whichever is greater in accordance with Subsections H of 19.15.17.13 NMAC. The operator shall construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.

Elm Ridge Exploration has backfilled the excavated area with non-waste containing earthen material, and installed a soil cover of at least one (1) foot thick of suitable material to establish vegetation at this site. The soil cover has been graded in such a way that it conforms to the grade of the natural surroundings, and will prevent ponding of water and erosion of the cover material; see attached *Site Photos*.

iii. All areas of the well site that are no longer utilized on a day to day basis for the production of oil and/or gas, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will substantially restore, recontour and re-vegetate the areas, in accordance with 19.15.17.13 Subsections G and I NMAC. The operator shall notify the division when it has been re-seeded and when it has achieved successful re-vegetation.

Elm Ridge Exploration has restored, recontoured and re-seeded the excavated area in accordance with BLM standards as outlined in the Memorandum of Understanding (MOU), approved by the Navajo Nation.

- 2) If soil samples exceed the regulatory standards stated above:
 - i. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, shall submit a Form C-141 with the laboratory results so that the division may review the results to determine if additional delineation is required in accordance with Paragraph (4) of Subsection C of 19.15.17.13 NMAC.

The 5-point composite sample of native soil beneath the earthen pit returned results below the 100 mg/kg TPH standard, the 0.2 mg/kg benzene standard, the 50 mg/kg BTEX standard and the 250 mg/kg total chloride standard, confirming that a release did NOT occur.

Elm Ridge Exploration Bisti Coal 8 L COM 2 Earth Pit Closure Project No. 03056-0186 Closure Date: 8/24/09

10) Elm Ridge Exploration will submit a closure report within 60 days following the earthen pit closure. The closure report will consist of a form C-144 with all supporting data and a form C-141 with all supporting data. The supporting data will include proof of closure notice to the surface owner and the OCD, confirmation sampling analytical results, a site diagram, soil backfilling and cover installation, revegetation rates, re-seeding techniques, and site reclamation photo documentation if applicable, along with all other information related to the onsite activities.

See attached C-144 Closure Form and attached Form C-141 Release Notification Form. Closure report has been submitted prior to October 24, 2009.

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August 4, 2009

Project No. 03056-0241

Mr. Brad Jones New Mexico Oil Conservation Division 1220 South St. Francis Street Santa Fe. New Mexico 87505

Phone (505) 476-3487

RE: EARTH PIT CLOSURE NOTIFICATIONS AND PROPOSED CLOSURE SCHEDULE

Dear Mr. Jones,

Envirotech, Inc., on the behalf of Elm Ridge Exploration, would like to submit this notification to begin closure activities at the below mentioned locations. Attached to this document is a proposed closure schedule for the months of August and September of 2009. Should this schedule be approved by your office, closure activities will begin as scheduled, with surface owner notifications being made at a minimum of 24 hours prior to the beginning of closure activities and a maximum of one (1) week prior to closure activities. Additional closure notifications and schedules will be made prior to beginning any closure activities. This letter will act as the closure notification for the following sites:

Bisti Coal 20-2	Bisti Coal 6-1	Bisti Coal 6-2	Bisti Coal 7-1
Bisti Coal 7 COM 2	Bisti Coal 8 COM 1	Bisti Coal 8L COM 2	Bisti Coal 9-1
Bisti Coal 9 COM 2	Bisti Coal 21-1	Bisti Coal 21 COM 2	Bisti Coal 22-2
Bisti Coal 28-1	Bisti Coal 29-1	Bisti Coal 29-2	Bisti Coal 30 COM 1
Bisti Coal 31-1	Bisti Coal 4-1	Bisti Coal 4 COM 2	Bisti Coal 5 COM 1
Bisti Coal 5K COM 2	Carson 10-332	Buena Suerte 3 G COM 1	Buena Suerte 3 L COM 1
Buena Suerte 32 G COM 1	East Bisti Coal 6-1	Buena Suerte 4 L COM 1	Carson Unit 15 COM 323
Carson Unit 206	Carson Unit 313	Pete Morrow 1	Pete Morrow 2
North Bisti Coal 32M COM 2	North Bisti Coal 31-1	Sam Jackson State COM 1	Jeter COM 2
West Bisti Coal 11 F COM 1	West Bisti Coal 12-1	West Bisti Coal 13-1	West Bisti Coal 11-2
West Bisti Coal 10-2	West Bisti Coal 15-1	West Bisti Coal 14 COM 1	West Bisti Coal 15-2
West Bisti Coal 22-2	West Bisti Coal 23-1	West Bisti Coal 22 COM 1	West Bisti Coal 24-1
West Bisti Coal 24 COM 2	West Bisti Coal 25-1	West Bisti Coal 25 2Y	Jicarilla Apache I-11
Sheila Hixon 1	Bisti Coal 16-2		

Elm Ridge Exploration is proposing to close the earthen pits at the above listed well locations based on the attached closure schedule.

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

Respectfully Submitted,

ENVIROTECH, IN

James McDaniel
Project Scientist

imcdaniel@envirotech-inc.com

ELM RIDGE EXPLORATION

Amy Mackey

Administrative Manager amackey | @cimridge.net

Attachments: Closure Schedule

August 2009

Sunday	Monday	Augus Tuesdav	August 2009 V	Thurs	Friday	Sat
						1
2	3	4	5	9	7	8
6	10 Bisti Coal 20-2 Bisti Coal 21-1 Bisti Coal 21 COM 2 Bisti Coal 22-2 Bisti Coal 28-1	11 Bisti Coal 20-2 Bisti Coal 21-1 Bisti Coal 21 COM 2 Bisti Coal 22-2 Bisti Coal 28-1	12 Bisti Coal 20-2 Bisti Coal 21-1 Bisti Coal 21-1 Bisti Coal 21 COM 2 Bisti Coal 22-2 Bisti Coal 28-1	13 Bieti Coal 20-2 Bieti Coal 21-1 Bieti Coal 21-1 Bieti Coal 21-COM 2 Bieti Coal 22-2 Bieti Coal 28-1	14 Bisti Coal 20-2 Bisti Coal 21-1 Bisti Coal 21 COM 2 Bisti Coal 22-2 Bisti Coal 28-1	15
16	Bisti Coal 29-1 Bisti Coal 29-2 Bisti Coal 30-COM 1 Bisti Coal 31-1 Bisti Coal 4-1 Bisti Coal 4 COM 2 Bisti Coal 5 COM 1 Bisti Coal 16-2 Bisti Coal 16-2	18 Bisti Coal 29-1 Bisti Coal 29-2 Bisti Coal 31-1 Bisti Coal 4-1 Bisti Coal 5 COM 1 Bisti Coal 5 COM 1 Bisti Coal 5 COM 1 Bisti Coal 5 COM 2 Bisti Coal 5 COM 2	Heat Coal 29-1 Blisti Coal 29-2 Blisti Coal 30-0M 1 Blisti Coal 31-1 Blisti Coal 4-1 Blisti Coal 5 COM 1 Blisti Coal 5 COM 2 Blisti Coal 5 COM 2	20 Bisti Coal 29-1 Bisti Coal 29-2 Bisti Coal 30-CM 1 Bisti Coal 31-1 Bisti Coal 4-1 Bisti Coal 4 COM 2 Bisti Coal 5 COM 1 Bisti Coal 5 COM 2 Bisti Coal 16-2	21 Bisti Coel 29-1 Bisti Coel 29-2 Bisti Coel 30 COM 1 Bisti Coel 4-1 Bisti Coel 4 COM 2 Bisti Coel 5 COM 1 Bisti Coel 5 COM 1 Bisti Coel 16-2 Bisti Coel 16-2	22
23	24 Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7 COM 2 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9 COM 2	Bieti Coal 6-1 Bieti Coal 6-1 Bieti Coal 6-2 Bieti Coal 7-1 Bieti Coal 7-COM 2 Bieti Coal 8-COM 1 Bieti Coal 9-1 Bieti Coal 9-COM 2	26 Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7-CM 2 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9-1 Bisti Coal 9 COM 2	Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7-1 Bisti Coal 7 COM 2 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9 COM 2	28 Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7 COM 2 Bisti Coal 8 COM 1 Bisti Coal 8L COM 2 Bisti Coal 9-1 Bisti Coal 9 COM 2	29
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SENDER: COMPLETE THIS SECTION

- 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.
- Attach this card to the back of the mailplace, or on the front if space permits.
- Article Addressed to:

Mr. Mark Helly Bureau of Land Management 1235 La Plata Hwy, Ste. A Farmington, NM 87401

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2009-08-20



August 17, 2009

Project No. 03056-0186

Mr. Mark Kelly Bureau of Land Management 1235 La Plata Highway, Suite A Farmington, New Mexico 87401

Phone: (505) 599-8900

RE: BISTI COAL 8L COM 2 EARTH PIT CLOSURE NOTIFICATION

Dear Mr. Kelly,

Please accept this letter and attached Sundry Notice as the necessary surface owner notification for earth pit closure activities at the Bisti Coal 8L COM 2 well site, owned and operated by Elm Ridge Exploration. The Bisti Coal 8L COM 2 well site is located in Unit L, Section 8, Township 25N, Range 12W, San Juan County, New Mexico. Closure activities are scheduled to begin on August 24, 2009 and continue through August 28, 2009.

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

Respectfully Submitted,

Envirotech, In

James McDaniel Project Scientist

jmcdaniel@envirotech-inc.com

Enclosure:

Sundry Notice

Cc:

Client File No. 03056

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

5. Lease Serial No. 14-20-603-324

				11 20 000 021		
Do not use this	form for proposals	to drill or to re-e	enter an	6. If Indian, Allottee of	or Tribe Name	
SUBMI	T IN TRIPLICATE - Other	r instructions on page	2.	7. If Unit of CA/Agre	ement, Name and/or No.	
1. Type of Well				0.374.11.12		
	Vell Other			Bisti Coal 8L COM2		
2. Name of Operator Elm Ridge Exploration				9. API Well No. 30-045-28779		
PO Box 156		3b. Phone No. (included) (505) 632-3476	de area code)	10. Field and Pool or	Exploratory Area	
4. Location of Well <i>(Footage, Sec., T.</i> 2470 FSL 1015 FWL, L-8-25N-12W, Lat. 38.41	R.M., or Survey Description 52272 long108.1402923	i				
12. CHE	CK THE APPROPRIATE BO	OX(ES) TO INDICATE	E NATURE OF N	OTICE, REPORT OR OTH	ER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION	· · · · · · · · · · · · · · · · · · ·	
✓ Notice of Intent	Acidize Alter Casing	Deepen Fracture Tre	=	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity	
Subsequent Report	Casing Repair	New Constr	uction \Box	Recomplete		
Deinal Abandanman Nation	Change Plans		andon 🔲	Temporarily Abandon	Pit	
determined that the site is ready for Elm Ridge Exploration plans to beg Closure activities are scheduled to	or final inspection.) In closure activities for an being on Monday, August	earthen pit located a 24, 2009 and last the	t the above men	tioned site. All formal no		
14. I hereby certify that the foregoing is Ms. Amy Mackey	true and correct. Name (Print	ed/Typed)				
$\longrightarrow A \rightarrow$		Title	Administrative	Manager		
Signature		Date	08/17/2009			
- Strange	THIS SPACE			OFFICE USE		
2. Name of Operator Im Ridge Exploration 3. Address PC Box 158 1						
			Title		Date	
Conditions of approval, if any, are attach that the applicant holds legal or equitable entitle the applicant to conduct operation	title to those rights in the subj		Office	***************************************	LVate	
Title 18 U.S.C. Section 1001 and Title 4	3 U.S.C. Section 1212, make it	a crime for any person l	knowingly and will	fully to make to any departme	ent or agency of the United States any fals	

fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Elm Ridge Exploration Bisti Coal 8 L COM 2 Sec. 8, Twn 25N, Rge 12W Project No. 03056-0186



Photo 1: Bisti Coal 8 L COM 2



Photo 2: Excavated Area After Backfilling and Recontouring



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Exploration

Project #:

03056-0186

Sample No.:

1

Date Reported:

9/17/2009

Sample ID:

Earth Pit Comp @1' Below

8/24/2009

Sample Matrix:

Soil

Date Sampled: Date Analyzed:

8/24/2000

Preservative:

Cool

Analysis Needed:

8/24/2009 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

68

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Bisti Coal 8 L COM 2

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Toni McKnight

Printed

James McDaniel

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

24-Aug-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
TPH	100 200 500 1000	202	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Show Michelas for:

10/77/09

Toni McKnight

Print Name

Review

9/17/09

Date

James McDaniel

Print Name



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge Resources	Project #:	03056-0186
Sample ID:	1' BGS of Pit	Date Reported:	08-28-09
Laboratory Number:	51399	Date Sampled:	08-24-09
Chain of Custody:	7816	Date Received:	08-24-09
Sample Matrix:	Soil	Date Analyzed:	08-27-09
Preservative:	Cool	Date Extracted:	08-26-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Earth Pit Closure / Bisti Coal 8L Com 2.

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-27-BTEX QA/QC	Date Reported:	08-28-09
Laboratory Number:	51388	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-27-09
Condition:	N/A	Analysis:	BTEX

Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.
Detection Limits (ug/L)	Mary 1887	Accept. Rang	je 0 - 15%	Conc	Limit
Benzene	3.1192E+006	3.1254E+006	0.2%	ND	0.1
Toluene	2.8947E+006	2.9005E+006	0.2%	ND	0.1
Ethylbenzene	2.5459E+006	2.5510E+006	0.2%	ND	0.1
p,m-Xylene	6.5578E+006	6.5709E+006	0.2%	ND	0.1
o-Xylene	2.4389E+006	2.4438E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample D	uplicate	%Diff.	Accept Range	Detect. Limit
Benzene	9.9	9.6	3.0%	0 - 30%	0.9
Toluene	51.4	50.9	1.0%	0 - 30%	1.0
Ethylbenzene	37.7	37.6	0.3%	0 - 30%	1.0
p,m-Xylene	158	153	3.3%	0 - 30%	1.2
o-Xylene	74.1	73.4	0.9%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	9.9	50.0	59.4	99.2%	39 - 150
Toluene	51.4	50.0	96.3	95.0%	46 - 148
Ethylbenzene	37.7	50.0	85.6	97.6%	32 - 160
p,m-Xylene	158	100	256	99.1%	46 - 148
o-Xylene	74.1	50.0	117	94.3%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 51388, 51389, 51397 - 51400, 51402, 51403, 51409 and 51412.

Analyst



Chloride

Client: Elm Ridge Resources Project #: 03056-0186 1' BGS of Pit Sample ID: Date Reported: 08-28-09 08-24-09 Lab ID#: 51399 Date Sampled: 08-24-09 Date Received: Sample Matrix: Soil 08-26-09 Preservative: Cool Date Analyzed: Chain of Custody: Condition: Intact 7815

Parameter

Concentration (mg/Kg)

Total Chloride

240

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Earth Pit Closure / Bisti Coal 8L Com 2.

Analyst

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CHAIN OF CUSTODY RECORD

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			ENVI	ROTEC	CHINC		EERS ENVIRONMENTAL SPECIALIST:					
PAGE NO: OF U		ENVIR			STS & ENGIN	IEERS						
DATE STARTED: 8/24/	/10	F		. HIGHWAY	7 64 - 3014 IEXICO 87401		LAT: N 36° 24, 9/9/					
DATE FINISHED: 8/24	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	1		NE: (505) 63			LONG: W108° 8.4235					
FIELD REPORT: BGT / PIT CLOSURE VERIFICATION												
LOCATION: NAME: B:		(ρr)	WELL #:		TEMP PIT:		ENT PIT: >	ረ BGT:				
LEGAL ADD: UNIT: L SEC: 8 TWP: 25N RNG: 12W PM: NM												
EXCAVATION APPROX:		FT. X	15	FT. X				RDAGE &				
DISPOSAL FACILITY: LAND OWNER:	Enuro Federa			REMEDIA'	TION METHO	DD: Lan BGT/PITV						
CONSTRUCTION MATERIA					VITH LEAK D							
LOCATION APPROXIMATE	LY:		FT.		FROM WELL	HEAD						
DEPTH TO GROUNDWATE												
TEMPORARY PIT - GR BENZENE ≤ 0.2 mg/kg, B				N (8015) < 50	O ma/ka TDU (418 1) < 2500	mg/kg CHI (ORIDES < 500 mg/kg				
	_			N (0013) \$ 30	o mg/kg, 1111 (416.1) \$ 2500	mg/kg, CITE	OKIDES 3 500 mg/kg				
TEMPORARY PIT - GR BENZENE ≤ 0.2 mg/kg, BT				N (8015) ≤ 50	0 mg/kg, TPH (4	118.1) ≤ 2500	mg/kg, CHLC	ORIDES ≤ 1000 mg/kg				
× PERMANENT PIT OR E	-	0,		,								
BENZENE ≤ 0.2 mg/kg, B'		kg, TPH (418.1)	≤ 100 mg/kg	, CHLORIDI	ES ≤ 250 mg/kg							
				FIEL	D 418.1 ANAL							
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SAMPLE ID ANALYSIS BENZENE	RESULTS	1'	B65 0	t Both	in of F-	<i>y</i> .						
SAMPLE ID ANALYSIS BENZENE BTEX GRO & DRO		,′	B65 0	t Both	in of P	<i>y</i> .						
SAMPLE ID ANALYSIS BENZENE BTEX		,′	B65 o	t Bott	m of P	<i>y</i> .						



Bill of Lading

MANIFEST #__

34123

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 DATE 8-24-05 JOB# 13056 - 0186

"I certify) (*)	RESULTS.								1	NO.	LOAD
the material hauled from the above location has not been added	PAINT FILTER /	S: CHLORIDE TEST								8 #2 COA!	POINT OF ORIGIN	COI
	LANDFARM EMPLOYEE:									CFIT	DESTINATION	COMPLETE DESCRIPTION OF SHIPMENT
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to or mixed	1	1							_	F-26	GRID	MENT
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s the same											BBLS	
I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and		NOTES: ENT								484	COMPANY	TR
		ENTERED AUG								278	TRK#	TRANSPORTING COMPANY
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COMPANY CONTACT MARK	NAME TIME MALE
PHONE 32727/	COMPANY EMBRICAL
DATE BY SOLOS	SIGNATURE COMMINICATION OF THE STATE OF THE



Bill of Lading

MANIFEST #.

34122

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 DATE 8-24-05 JOB# 02056-0186

"I certify	0	120	RESULTS:							4	NO.	LOAD	
the material hauled from the	PAINT FILTER EMPLOYEE:	CHLORIDE TEST	S.							8:54: COAI	POINT OF ORIGIN	CON	FINE: (303) 032-0013 • 3/96 0.3. FIGHWAY 64 • FARMINGTON, NEW MEXICO 6/401
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