



Panther Energy Services, LLC
1179 S. 3rd St., Jal, NM 88252-1321
575.395.2654 – Office
575.395.2162- Fax

WORK PLAN PROPOSAL

On 7-20-17 a tank inside a battery containment was struck by lightning putting hole in the bottom of the tank and laying the tank over. Tank released approximately 130 bbls and approximately 126 bbls of fluid was recovered. Panther Energy sent a backhoe and a two man crew to the location. Battery containment was cleaned out with a vacuum truck and flushed with fresh water. The double liner and berms were pushed up and stock piled on plastic along with lightning struck tank. The affected area outside the containment was pushed up and stock piled on plastic. There is an attached drawing of battery containment and affected area outside the containment. The drawing also has X's marking spots that jar samples were taken and immediately taken to Cardinal Labs in Hobbs, New Mexico. The lab reports are also attached. All contaminated soil, plastic, and tank will be hauled off to Sundance. With approval from NMOCD and BLM, Enervest Operating proposes to build a new battery containment with 3' berms, new liner, and one new tank just east of existing battery on same location. Panther Energy will continue to remediate affected area with guidance and instructions from NMOCD and BLM. Only the initial standing fluid, plastic, saturated soil inside and outside of battery containment have been removed from affected area. No further remedial action will be taken, until approval has been given from NMOCD and BLM

Thank you,

Emmanuel Lujan

Panther Energy Services, LLC

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
9 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

Name of Company <u>Enervest Operating</u>		OPERATOR <input checked="" type="checkbox"/> Initial Report <input type="checkbox"/> Final Report	
Address <u>1001 Fannin St. Ste 800 Houston Tx 77002</u>		Contact <u>Penny Dawson</u>	
Facility Name <u>Myers B-27 #3</u>		Telephone No. <u>325-387-1226</u>	
Surface Owner <u>BLM</u>		Facility Type <u>Battery</u>	
Mineral Owner <u>BLM</u>		API No. <u>30-025-38763</u>	

LOCATION OF RELEASE

Unit Letter <u>D</u>	Section <u>27</u>	Township <u>20S</u>	Range <u>37E</u>	Feet from the	North/South Line	Feet from the	East/West Line	County
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Latitude _____ Longitude _____

NATURE OF RELEASE 130 bbls

Type of Release <u>Oil</u>	Volume of Release <u>130 bbls</u>	Volume Recovered <u>126 bbls</u>
Source of Release <u>Tank</u>	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Olivia Yu NMOCD 7/20/17 12:27 pm</u>	<u>left message</u>
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

RECEIVED

By Olivia Yu at 2:52 pm, Aug 02, 2017

Describe Cause of Problem and Remedial Action Taken.*

Tank was struck by lightning putting hole in bottom of tank and laying tank over. Panther Energy was called out to location. Plastic was layed out for tank to be set on. Battery area was cleaned w/ vacuum truck. Battery area approximately 60'x18'. Initial spill in pasture was cleaned up + stock piled on plastic.

Describe Area Affected and Cleanup Action Taken.*

Inside battery was picked up w/ vacuum truck and the area outside containment was pushed up and also stock piled on plastic. Tank was set on plastic.

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: <u>Emmanuel Lujan</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>Emmanuel Lujan</u>	Approved by Environmental Specialist: <u>uy</u>	
Title: <u>Field Supervisor</u>	Approval Date: <u>8/2/2017</u>	Expiration Date:
E-mail Address: <u>emmanuel@pantherenergy.net</u>	Conditions of Approval: <u>see attached directive</u>	Attached <input checked="" type="checkbox"/>
Phone: <u>9-28-17</u>	Phone: <u>575-631-6914</u>	

Attach Additional Sheets If Necessary

1RP-4767

pOY1720760939

nOY1720760173

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well



Oil Well



Gas Well



Other

2. Name of Operator

Encrust Operating

3a. Address

3b. Phone No. (include area code)

1001 Fannin St, Ste 800 Houston TX 77002 325-387-7226

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter D Sect 27 T5 20S R 37E

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

Megac B-27 #3

9. API Well No.

32-025-38763

10. Field and Pool or Exploratory Area

11. Country or Parish, State

New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Hydraulic Fracturing

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

TYPE OF ACTION

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other

Remediation

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Lightening struck tank causing fluid to be released into lined berm and out into pasture. Approximately 130 bbls was released and approximately 126 bbls was recovered. The damaged tank was removed and laid on plastic. The liner and saturated soil was removed and stock piled on plastic. The saturated soil in pasture was also removed and stock piled on plastic. With approval of BLM and NMOCs we would like to build new battery containment just east of existing battery. At the same time working to remediate affected area.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Emmanuel Lujan

Title Field Supervisor

Signature

Emmanuel Lujan

Date 7-28-17

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

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 granting approval 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.

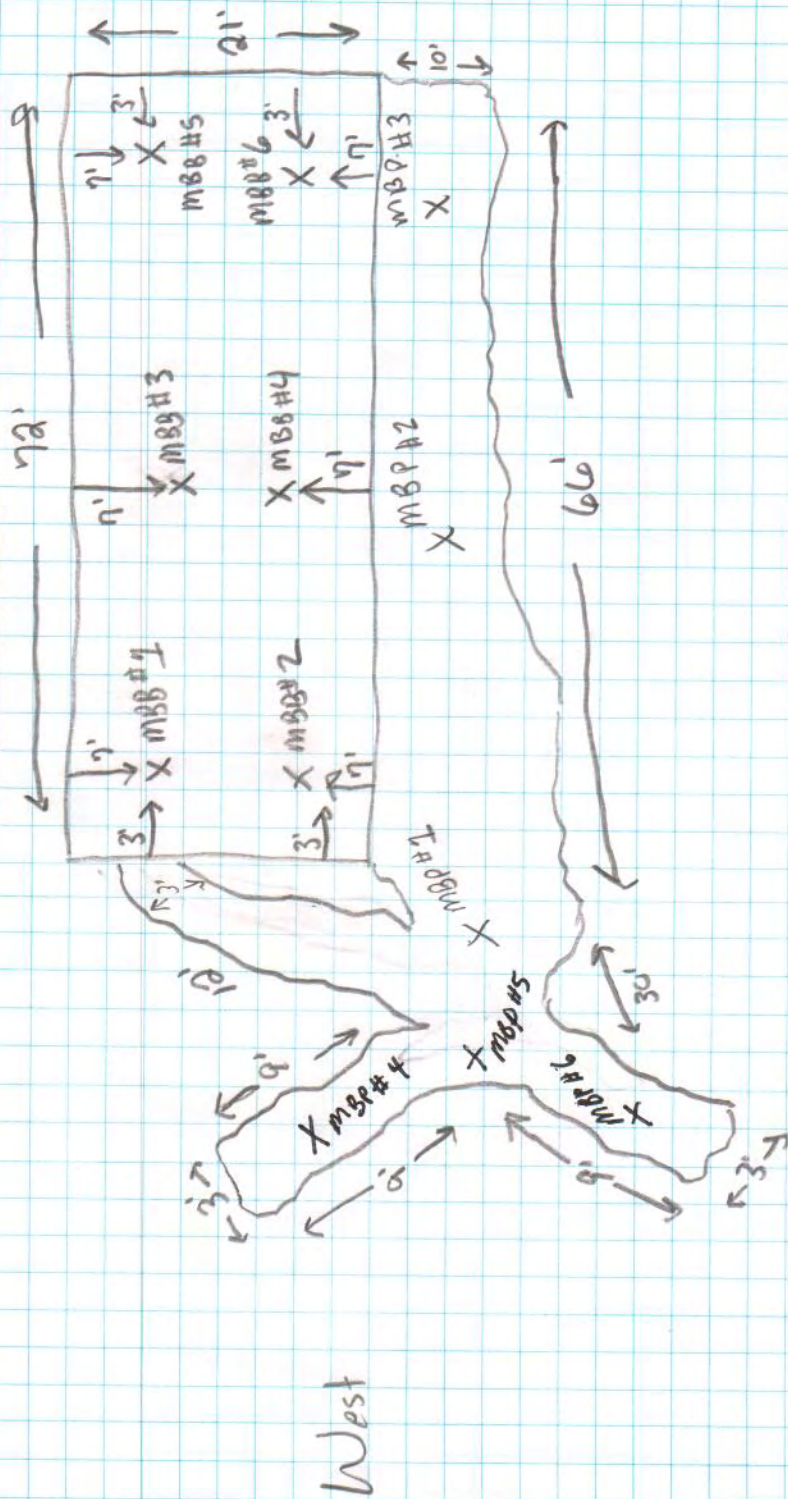
Response to this request is mandatory.

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

Meyers B-27 #3

North



Meyers Battery Pasture

MBP #1 =

MBP #2 =

MBP #3 =

MBP #4 =

MBP #5 =

MBP #6 =

MBB #1 =

MBB #2 =

MBB #3 =

MBB #4 =

MBB #5 =

MBB #6 =

July 27, 2017

WILLIAM PILKINGTON

ENERVEST - JAL

HWY 128 WEST

JAL, NM 88252

RE: MEYERS #3

Enclosed are the results of analyses for samples received by the laboratory on 07/26/17 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/26/2017
Reported: 07/27/2017
Project Name: MEYERS #3
Project Number: EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - MBB #1 (H701948-01)

BTEX 80218		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.26	0.500	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	66.1	0.500	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	56.0	0.500	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	102	1.50	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTEX	231	3.00	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 128 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3510	50.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	6830	50.0	07/26/2017	ND	206	103	200	0.618	

Surrogate: 1-Chlorooctane 184 % 28.3-164

Surrogate: 1-Chlorooctadecane 193 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/26/2017
Reported: 07/27/2017
Project Name: MEYERS #3
Project Number: EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - MBB #2 (H701948-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	0.142	0.050	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	0.721	0.050	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	1.60	0.150	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTEX	2.47	0.300	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	59.2	10.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	396	10.0	07/26/2017	ND	206	103	200	0.618	

Surrogate: 1-Chlorooctane 108 % 28.3-164

Surrogate: 1-Chlorooctadecane 116 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/26/2017
Reported: 07/27/2017
Project Name: MEYERS #3
Project Number: EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - MBB #3 (H701948-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.07	0.500	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	70.7	0.500	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	58.5	0.500	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	122	1.50	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTX	259	3.00	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 127 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4690	50.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	9610	50.0	07/26/2017	ND	206	103	200	0.618	

Surrogate: 1-Chlorooctane 200 % 28.3-164

Surrogate: 1-Chlorooctadecane 223 % 34.7-157

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ENERVEST - JAL
 WILLIAM PILKINGTON
 HWY 128 WEST
 JAL NM, 88252
 Fax To: UNKNOWN

 Received: 07/26/2017
 Reported: 07/27/2017
 Project Name: MEYERS #3
 Project Number: EO #1
 Project Location: MEYERS B-27 #3

 Sampling Date: 07/26/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - MBB #4 (H701948-04)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.06	0.500	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	80.3	0.500	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	69.7	0.500	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	141	1.50	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTEX	298	3.00	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 129 % 72-148

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M

mg/kg

Analyzed By: MS

S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5790	50.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	11200	50.0	07/26/2017	ND	206	103	200	0.618	

Surrogate: 1-Chlorooctane 224 % 28,3-164

Surrogate: 1-Chlorooctadecane 261 % 34,7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/26/2017
Reported: 07/27/2017
Project Name: MEYERS #3
Project Number: EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - MBB #5 (H701948-05)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	0.070	0.050	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	0.057	0.050	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	<0.150	0.150	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTEX	<0.300	0.300	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 72-148

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	206	103	200	0.618	


Surrogate: 1-Chlorooctane 99.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/26/2017
Reported: 07/27/2017
Project Name: MEYERS #3
Project Number: EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - MBB #6 (H701948-06)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	<0.050	0.050	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	<0.150	0.150	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTEX	<0.300	0.300	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 72-148

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	206	103	200	0.618	

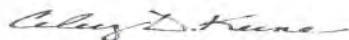
Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 119 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/26/2017
Reported: 07/27/2017
Project Name: MEYERS #3
Project Number: EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - MBP #1 (H701948-07)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	<0.050	0.050	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	<0.150	0.150	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTEX	<0.300	0.300	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	206	103	200	0.618	

Surrogate: 1-Chlorooctane 127 % 28.3-164

Surrogate: 1-Chlorooctadecane 135 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ENERVEST - JAL
 WILLIAM PILKINGTON
 HWY 128 WEST
 JAL NM, 88252
 Fax To: UNKNOWN

 Received: 07/26/2017
 Reported: 07/27/2017
 Project Name: MEYERS #3
 Project Number: EO #1
 Project Location: MEYERS B-27 #3

 Sampling Date: 07/26/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 - MBP #2 (H701948-08)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	<0.050	0.050	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	<0.150	0.150	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTEX	<0.300	0.300	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 72-148

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	302	10.0	07/26/2017	ND	206	103	200	0.618	

Surrogate: 1-Chlorooctane 105 % 28.3-164

Surrogate: 1-Chlorooctadecane 122 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/26/2017
Reported: 07/27/2017
Project Name: MEYERS #3
Project Number: EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - MBP #3 (H701948-09)

BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2017	ND	2.02	101	2.00	3.89	
Toluene*	<0.050	0.050	07/27/2017	ND	1.87	93.4	2.00	3.95	
Ethylbenzene*	<0.050	0.050	07/27/2017	ND	1.97	98.3	2.00	3.82	
Total Xylenes*	<0.150	0.150	07/27/2017	ND	5.90	98.3	6.00	3.97	
Total BTEX	<0.300	0.300	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 72-148

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/26/2017	ND	432	108	400	0.00	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/26/2017	ND	193	96.6	200	1.98	
DRO >C10-C28	<10.0	10.0	07/26/2017	ND	206	103	200	0.618	

Surrogate: 1-Chlorooctane 99.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Everest Operations
Project Manager: Acil Lujan

Address: 101 E. Panther

City: Jal State: NM Zip: 88252

Phone #: 575-631-2624 Fax #: 575-395-2162

Project #: EO #1 Project Owner: Everest

Project Name: Meyers #3

Project Location: Meyers B-27 #3

Sampler Name: Acil Lujan

P.O. #:

Company: Everest

Attn: Andy Dawson

Address: 101 Marland St

City: Houston

State: Tx Zip: 77002

Phone #: 305-391-7226

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H1D1948

SL-MB8 #1

SL-MB8 #2

SL-MB8 #3

SL-MB8 #4

SL-MB8 #5

SL-MB8 #6

SL-MB8 #7

SL-MB8 #8

SL-MB8 #9

SL-MB8 #10

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

7-26

11:05

11:19

11:09

11:06

11:20

11:23

11:27

11:31

11:34

Chlorides
BTEX
TPH

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Relinquished By:

Date: 7/26/17 Received By:

Time: 12:30

Relinquished By: Acil Lujan

Date: 7/26/17 Received By: Andy Dawson

Time: 12:30

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: #75

3.250

3.00

Sample Condition

Cool ☒ Intact ☒

Checked By: Acil Lujan

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: E-Mail Results to

emmanuel@pantherenergy.net

lujan.acil@yahoo.com

wilkington@everest.net

July 28, 2017

WILLIAM PILKINGTON

ENERVEST - JAL

HWY 128 WEST

JAL, NM 88252

RE: MEYERS #3

Enclosed are the results of analyses for samples received by the laboratory on 07/27/17 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/27/2017
Reported: 07/28/2017
Project Name: MEYERS #3
Project Number: MB#3 - EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/27/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBP #4 (H701963-01)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2017	ND	2.11	106	2.00	1.48	
Toluene*	<0.050	0.050	07/27/2017	ND	1.97	98.3	2.00	1.23	
Ethylbenzene*	<0.050	0.050	07/27/2017	ND	2.03	102	2.00	0.627	
Total Xylenes*	<0.150	0.150	07/27/2017	ND	6.09	101	6.00	1.23	
Total BTEX	<0.300	0.300	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

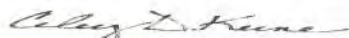
Surrogate: 1-Chlorooctane 91.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.2 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/27/2017
Reported: 07/28/2017
Project Name: MEYERS #3
Project Number: MB#3 - EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/27/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBP #5 (H701963-02)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2017	ND	2.11	106	2.00	1.48	
Toluene*	<0.050	0.050	07/27/2017	ND	1.97	98.3	2.00	1.23	
Ethylbenzene*	<0.050	0.050	07/27/2017	ND	2.03	102	2.00	0.627	
Total Xylenes*	<0.150	0.150	07/27/2017	ND	6.09	101	6.00	1.23	
Total BTEX	<0.300	0.300	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 72-148

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/27/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	<10.0	10.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 90.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENERVEST - JAL
WILLIAM PILKINGTON
HWY 128 WEST
JAL NM, 88252
Fax To: UNKNOWN

Received: 07/27/2017
Reported: 07/28/2017
Project Name: MEYERS #3
Project Number: MB#3 - EO #1
Project Location: MEYERS B-27 #3

Sampling Date: 07/27/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MBP #6 (H701963-03)
BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	07/27/2017	ND	2.11	106	2.00	1.48	
Toluene*	1.00	0.500	07/27/2017	ND	1.97	98.3	2.00	1.23	
Ethylbenzene*	9.77	0.500	07/27/2017	ND	2.03	102	2.00	0.627	
Total Xylenes*	32.1	1.50	07/27/2017	ND	6.09	101	6.00	1.23	
Total BTEX	42.9	3.00	07/27/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 127 % 72-148

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/27/2017	ND	464	116	400	3.51	

TPH 8015M

mg/kg

Analyzed By: MS

S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1170	50.0	07/27/2017	ND	186	92.9	200	1.83	
DRO >C10-C28	7470	50.0	07/27/2017	ND	200	100	200	3.97	

Surrogate: 1-Chlorooctane 170 % 28.3-164

Surrogate: 1-Chlorooctadecane 189 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Enverest Operating
Project Manager: Angel Lujan

Address: 1179 S. 3rd St
City: Jal State: NM Zip: 88252

Phone #: 575-631-2624 Fax #: 575-355-2162
Project #: ED H1 Project Owner: Enverest

Project Name: M8#3
Project Location: Mayor B-27 #2

Sampler Name: Angel Lujan
FOR LAB USE ONLY

BILL TO

P.O. #:
Company: Enverest
Attn: Frank Dawson

Address: 1601 Emma St
City: Houston State: TX Zip: 77002

Phone #: 281-387-7226
Fax #:

ANALYSIS REQUEST

Lab I.D. Sample I.D.

#01963
1 MBP #4
2 MBP #5
3 MBP #6

(G)RAB OR (C)OMP
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE / COOL
OTHER:

DATE TIME

Chlorides
BTEX
TPH

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Relinquished By: 1215-
Time: 7:27 AM
Date: 10-14-05

Received By: Emmanuel
Time: 7:45
Date: 10-14-05

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS: E-mail to 2
emmanuel@partnerscmg.net
lujan.and@yahoo.com
wpikington@enverest.net
PLUSH!!!

Delivered By: (Circle One) 0.5%
Sampler - UPS - Bus - Other: Corrected 0.15

Sample Condition
Cool ☐ Intact ☐
Yes ☐ No ☐

CHECKED BY: TE: 475

























Operator/Responsible Party,

The OCD has received the form C-141 you provided on 7/28/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4767 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 8/26/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

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