Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

July 28, 2008

30-015-36206
C-144 Attached
Final Closure

NMOCD
Attn: Mike Bratcher
1301 W. Grand Ave
Artesia, NM 88210

Re: Closure Report for J Cleo Thompson – Firefox Federal #1

Mr. Bratcher,

The enclosed report if for the closure of the J Cleo Thompson – Firefox Federal #1 Drilling pit. The closure method was waste excavation and disposal. The drilling liner and soil was excavated and hauled to Lea Land Disposal (Permit # WM-1-035). After all drilling liner had been removed, the pit bottoms were sampled and analyzed for field chlorides. The samples did not meet NMOCD standards and a delineation was performed. Confirmation samples were sent to the lab. A C-141 is attached explaining the remediation process. The site was backfilled with clean native soil and a minimum of 1' of topsoil was placed on the site to promote revegetation. The site was broadcast seeded with BLM Seed Mixture #2. Any questions about the report please contact the office.

Thanks,

Logan Anderson

Accepted for record
NMOCD
AUG 12 2008

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

AUG - 1 2008
OCD-ARTESIA

July 28, 2008

J Cleo Thompson
Mr. Jim Stevens
P O Box 12577
Odessa, TX 79768

Re: Drilling Pit Closure of J Cleo Thompson – Firefox Federal #1

Mr. Jim Stevens,

Enclosed is the closure report for the Firefox Federal #1 drilling pit closure. NMOCD requires that a J Cleo Thompson representative sign and date the final C-144 which is the very last page of the closure report. Then mail one copy to:

NMOCD
Attn: Mike Bratcher
1301 W. Grand Ave
Artesia, NM 88210

If you have any questions about the enclosed report please feel free to contact me at the office.

Sincerely,

Logan Anderson

Closure Report

Prepared for
J Cleo Thompson

Firefox Federal #1
API # 30-015-36206
Eddy County, NM

Prepared by
Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

Form C-144
June 16, 2008

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

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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.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

JUL 17 2008
OCD-ARTESIA

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

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: J Cleo Thompson OGRID #: 11181
Address: P O Box 12577 Odessa, TX 79768
Facility or well name: Firefox Federal #1
API Number: 30-015-36206 OCD Permit Number:
U/L or Qtr/Qtr E Section 4 Township 19S Range 31E County: ~~Eddy~~ OK
Center of Proposed Design: Latitude 32° 41.28453' N Longitude 103° 52.51703' W NAD: ☐1927 ☒ 1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

☒ **Pit:** Subsection F or G of 19.15.17.11 NMAC
Temporary: ☒ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation
☒ Lined ☐ Unlined
Liner type: Thickness 12 mil ☒ LLDPE ☐ HDPE ☐ PVC
☐ Other ☐ String-Reinforced
Seams: ☒ Welded ☐ Factory ☐ Other
Volume: 35M bbl Dimensions: L 150' x W 150' x D 6'

☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
☐ Drying Pad ☐ Tanks ☐ Haul-off Bins ☐ Other
☐ Lined ☐ Unlined
Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC
☐ Other
Seams: ☐ Welded ☐ Factory ☐ Other
Volume: bbl yd^3
Dimensions: Length x Width

☐ **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
☐ Other
Liner type: Thickness mil ☐ HDPE ☐ PVC
☐ Other

Fencing: Subsection D of 19.15.17.11 NMAC
☐ Chain link, six feet in height, two strands of barbed wire at top
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
Netting: Subsection E of 19.15.17.11 NMAC
☐ Screen ☐ Netting ☐ Other
☐ Monthly inspections
Signs: Subsection C of 19.15.17.11 NMAC
☐ 12'x24', 2' lettering, providing Operator's name, site location, and emergency telephone numbers
☐ Signed in compliance with 19.15.3.103 NMAC

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

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

0208153

ENTERED 8/12/08

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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district 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 pads or 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 watercourse, 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 ☐ NA
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	☐ 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

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 19.15.17.15 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.15 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 - 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 (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.15
- ☐ Siting Criteria Compliance Demonstrations (required 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 - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____

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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 19.15.17.15 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

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Proposed Closure: 19.15.17.13 NMAC

Type: ☒ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ Permanent Pit ☐ Below-grade Tank ☐ Closed-loop System ☐ Alternative

Proposed Closure Method: ☒ Waste Excavation and Removal
☐ 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)

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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

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 watercourse, 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

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 I of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Haul-off Bins Only: (19.15.17.13.D NMAC) ***Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings.***

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

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 and Design of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ 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
- ☐ 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 I of 19.15.17.13 NMAC
- ☐ Site Reclamation 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, accurate and complete to the best of my knowledge and belief.

Name (Print): James E. Stevens Title: Operations Manager

Signature: J E Stevens Date: July 9, 2008

e-mail address: _____ Telephone: 432-550-8887

OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only)

OCD Representative Signature: Jim W. Gum **Approval Date:** 7/14/08

Title: District II Supervisor **OCD Permit Number:** 02081 52

Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

☒ **Closure Completion Date:** 07-18-2008

Closure Method:

☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method

☐ If different from approved plan, please explain.

Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Proof of Closure Notice
- ☐ Proof of Deed Notice (if applicable)
- ☒ Plot Plan
- ☒ Confirmation Sampling Analytical Results
- ☐ Waste Material Sampling Analytical Results
- ☒ Disposal Facility Name and Permit Number
- ☒ Soil Backfilling and Cover Installation
- ☒ Re-vegetation Application Rates and Seeding Technique
- ☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐1927 ☐ 1983

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JUL 11 2008

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Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): J. E. Stevens Title: Operations Manager

Signature: J E Stevens Date: 7/30/08

e-mail address: _____ Telephone: 432 550-8887

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

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company – J Cleo Thompson	Contact – Jim Stevens
Address – P O Box 12577 Odessa, TX 79768	Telephone No. – 432-550-8887
Facility Name – Firefox Federal #1	Facility Type – Drilling Pit

Surface Owner - Federal	Mineral Owner – Federal	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	4	19S	31E					Eddy

Latitude 32° 41.28453' N **Longitude** 103° 52.51703'W

NATURE OF RELEASE

Type of Release – Drilling Fluids	Volume of Release - ?	Volume Recovered – None
Source of Release – Drilling Pit	Date and Hour of Occurrence - ?	Date and Hour of Discovery – 7-17-08
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, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Bottom samples taken below drilling pit were above NMOCD Standards.

Describe Area Affected and Cleanup Action Taken.* Area was delineated and lab confirmation taken at deepest depth of each sample point. All soil above NMOCD Standards was excavated and hauled to Lea Land Disposal. A total of 270 yds3 of contaminated soil was hauled to the Disposal. Clean soil was backfilled into the excavation.

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: J E Stevens	OIL CONSERVATION DIVISION
Printed Name: Jim Stevens	Approved by District Supervisor: Accepted for record NMOCD AUG 12 2008
Title: Operations Manager	Approval Date: / Expiration Date:
E-mail Address: jctwest@nts-online.net	Conditions of Approval: / Attached ☐
Date: 7-28-08 Phone: 432-550-8887	

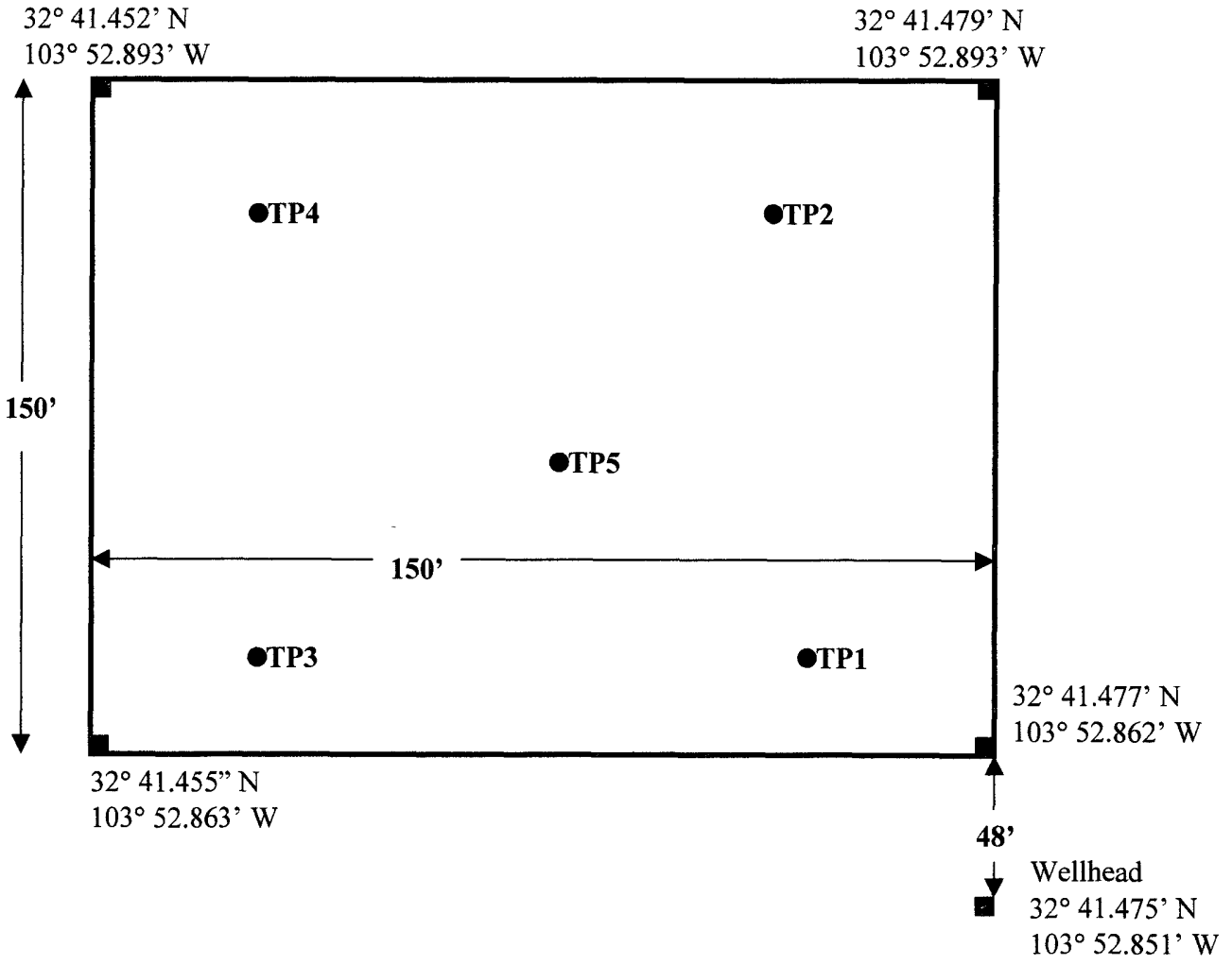
* Attach Additional Sheets If Necessary

N

J Cleo Thompson

Firefox Federal #1

Plat Map



Elke Environmental, Inc.
P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

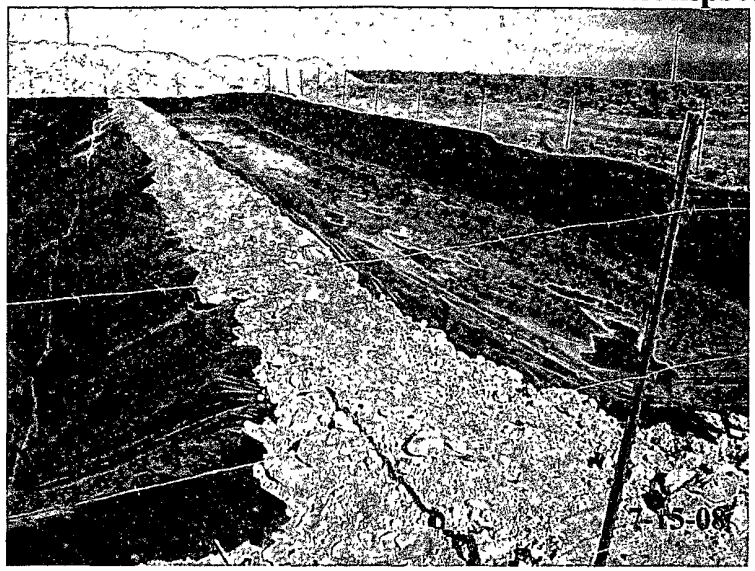
Client J Cleo Thompson **Analyst** Jason Jessup

Site Firefox Federal #1

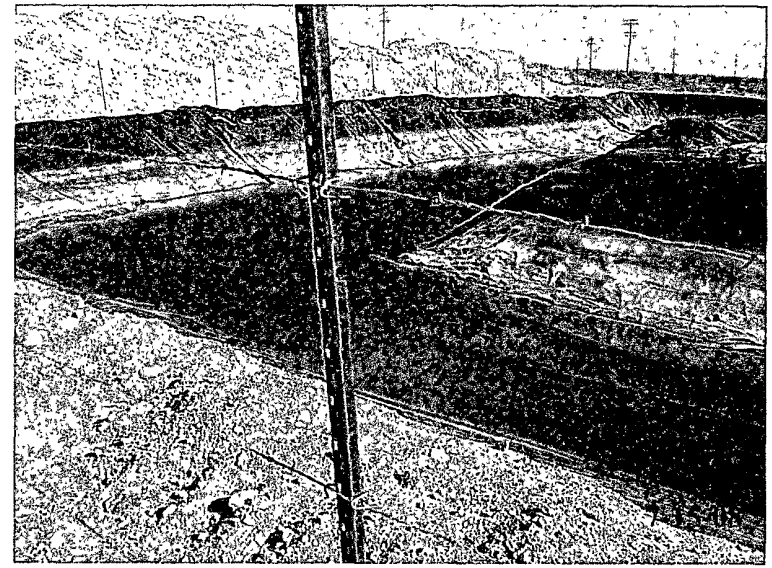
Sample ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
TP1	7-15-08	6'		237		32° 41.475' N 103° 52.866' W
TP2	7-15-08	6'		258		32° 41.477' N 103° 52.889' W
TP3	7-17-08	6'		151		32° 41.454' N 103° 52.865' W
TP4	7-17-08	6'		179		32° 41.455' N 103° 52.884' W
TP5	7-15-08	6'		4,528		32° 41.464' N 103° 52.876' W
TP5	7-15-08	8'		473		32° 41.464' N 103° 52.876' W

Analyst Notes

J Cleo Thompson – Firefox Federal #1



Drilling pit before closure.

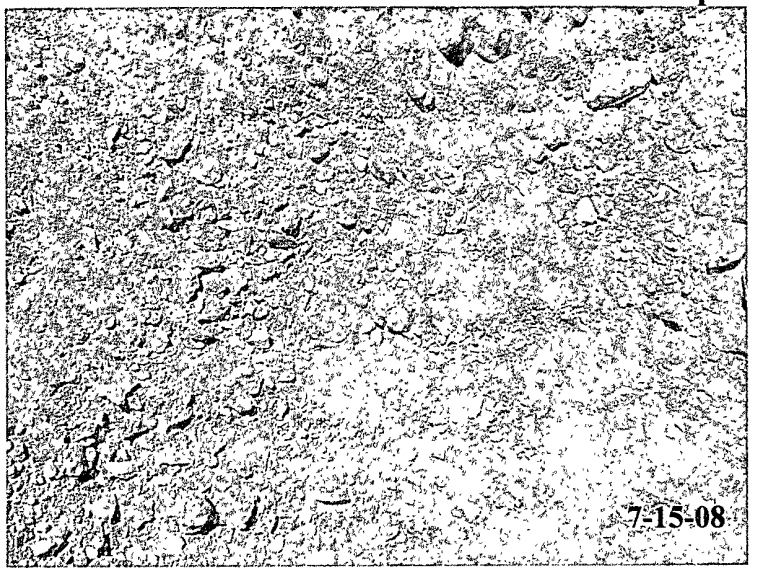


Drilling pit before closure.

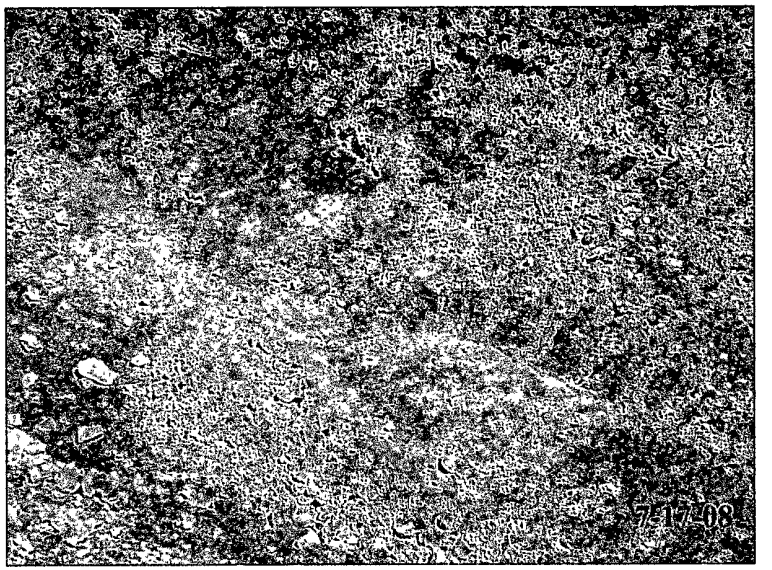
TP5 after removal of liner.

TP5 after excavation of contaminated soil.

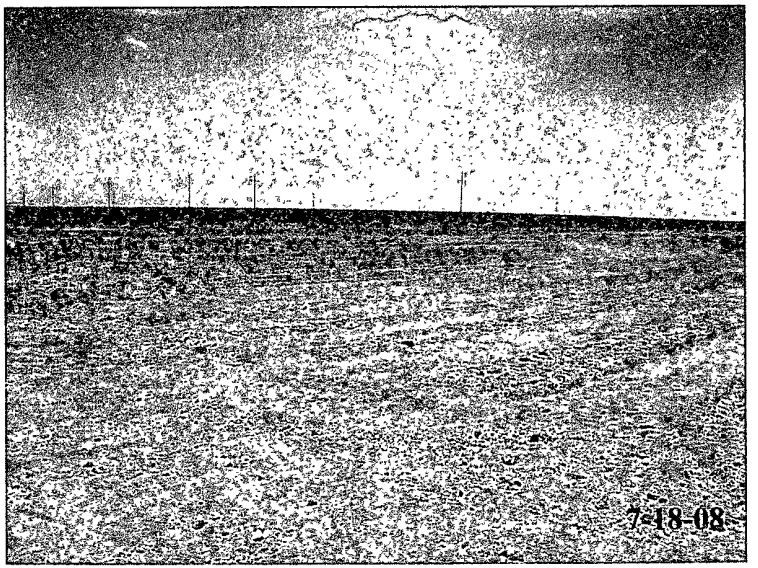
J Cleo Thompson – Firefox Federal #1



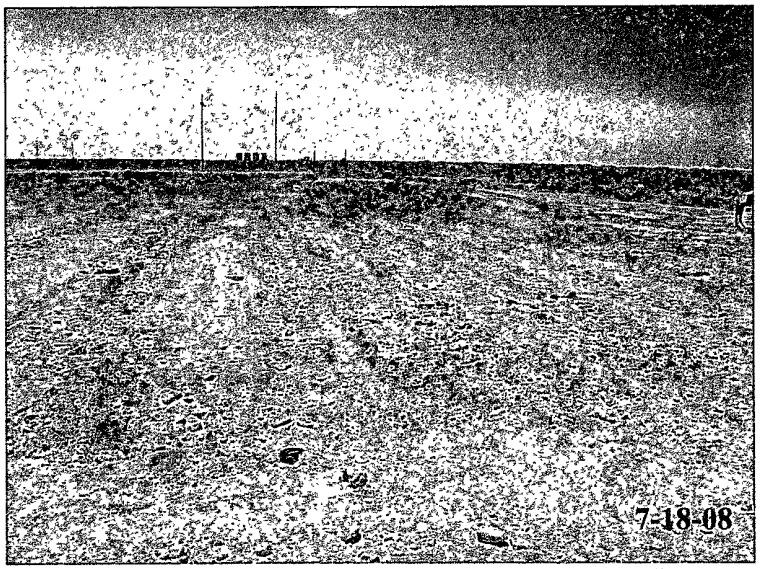
TP1 after removal of liner.



TP4 after removal of liner.



Site after backfill of clean soil and 1' of topsoil.



Site after backfill and seeding with BLM Seed #2.

Analytical Report 308248

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

J. Cleo Thompson

Fire Fox # 1

25-JUL-08

12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215

Florida certification numbers:
Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675
Norcross(Atlanta), GA E87429

South Carolina certification numbers:
Norcross(Atlanta), GA 98015

North Carolina certification numbers:
Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America
Midland - Corpus Christi - Atlanta

25-JUL-08

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **308248**
J. Cleo Thompson
Project Address: Eddy County, NM

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 308248. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 308248 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

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Sample Cross Reference 308248

Elke Environmental, Inc., Odessa, TX

J. Cleo Thompson

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP # 1	S	Jul-15-08 10:30	6 ft	308248-001
TP # 2	S	Jul-15-08 10:45	6 ft	308248-002
TP # 3	S	Jul-17-07 10:30	6 ft	308248-003
TP # 4	S	Jul-17-08 10:45	6 ft	308248-004
TP # 5	S	Jul-15-08 11:00	8 ft	308248-005

Certificate of Analysis Summary 308248

Elke Environmental, Inc., Odessa, TX

Project Name: J. Cleo Thompson

Project Id: Fire Fox # 1
Contact: Logan Anderson
Project Location: Eddy County, NM

Date Received in Lab: Fri Jul-18-08 02:07 pm
Report Date: 25-JUL-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	308248-001		308248-002		308248-003		308248-004		308248-005	
	Field Id:	TP # 1		TP # 2		TP # 3		TP # 4		TP # 5	
	Depth:	6 ft		6 ft		6 ft		6 ft		8 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-15-08 10.30		Jul-15-08 10:45		Jul-17-07 10.30		Jul-17-08 10:45		Jul-15-08 11:00	
BTEX by EPA 8021B	*Extracted:*	Jul-23-08 09:30		Jul-23-08 09:30		Jul-23-08 09:30		Jul-23-08 09:30		Jul-23-08 09:30	
	Analyzed:	Jul-23-08 19:17		Jul-23-08 18:29		Jul-23-08 18:53		Jul-23-08 19:41		Jul-23-08 20:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0010	ND	0.0012	ND	0.0012	ND	0.0010
Toluene		ND	0.0022	ND	0.0021	ND	0.0024	ND	0.0023	ND	0.0021
Ethylbenzene		ND	0.0011	ND	0.0010	ND	0.0012	ND	0 0012	ND	0.0010
m,p-Xylenes		ND	0.0022	ND	0.0021	ND	0.0024	ND	0 0023	ND	0 0021
o-Xylene		ND	0.0011	ND	0.0010	ND	0.0012	ND	0.0012	ND	0 0010
Total Xylenes		ND		ND		ND		ND		ND	
Total BTEX		ND		ND		ND		ND		ND	
Inorganic Anions by EPA 300	*Extracted:*										
	Analyzed:	Jul-21-08 18:36		Jul-21-08 18:36		Jul-21-08 18 36		Jul-21-08 18:36		Jul-21-08 18:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		55.4	10.8	131	10 4	27.6	5.97	27 4	5.77	438	10 5
Percent Moisture	*Extracted:*										
	Analyzed:	Jul-18-08 17:00		Jul-18-08 17.00		Jul-18-08 17:00		Jul-18-08 17:00		Jul-18-08 17.00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.69		3.45		16 2		13.3		4.68	
TPH by EPA 418.1	*Extracted:*										
	Analyzed:	Jul-24-08 16:12		Jul-24-08 16:12		Jul-24-08 16:12		Jul-24-08 16:12		Jul-24-08 16:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
TPH, Total Petroleum Hydrocarbons		90.6	10 8	65 6	10.4	37.5	11 9	48.2	11.5	67 0	10.5

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use
The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories
XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented
Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Brent Barron
Odessa Laboratory Director

Certificate of Analysis Summary 308248

Elke Environmental, Inc., Odessa, TX

Project Name: J. Cleo Thompson

Project Id: Fire Fox # 1
Contact: Logan Anderson
Project Location: Eddy County, NM

Date Received in Lab: Fri Jul-18-08 02:07 pm
Report Date: 25-JUL-08
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	308248-001		308248-002		308248-003		308248-004		308248-005	
	Field Id:	TP # 1		TP # 2		TP # 3		TP # 4		TP # 5	
	Depth:	6 ft		6 ft		6 ft		6 ft		8 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-15-08 10:30		Jul-15-08 10:45		Jul-17-07 10:30		Jul-17-08 10:45		Jul-15-08 11:00	
TPH by SW8015 Mod	***Extracted:***	Jul-22-08 14:30		Jul-22-08 14:30		Jul-22-08 14:30		Jul-22-08 14:30		Jul-22-08 14:30	
	Analyzed:	Jul-24-08 07:56		Jul-24-08 08:22		Jul-24-08 08:49		Jul-24-08 09.17		Jul-24-08 09:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		ND	16.2	ND	15.5	ND	17.9	ND	17.3	ND	15.7
C12-C28 Diesel Range Hydrocarbons		ND	16.2	ND	15.5	ND	17.9	ND	17.3	ND	15.7
C28-C35 Oil Range Hydrocarbons		ND	16 2	ND	15.5	ND	17.9	ND	17.3	ND	15.7
Total TPH		ND		ND		ND		ND		ND	

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Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

Brent Barron
Odessa Laboratory Director

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

* Outside XENCO'S scope of NELAC Accreditation

Form 2 - Surrogate Recoveries

Project Name: J. Cleo Thompson

Work Order #: 308248 **Project ID:** Fire Fox # 1

Lab Batch #: 728862 **Sample:** 308226-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 728862 **Sample:** 308226-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	80-120	

Lab Batch #: 728862 **Sample:** 308248-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 728862 **Sample:** 308248-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 728862 **Sample:** 308248-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: J. Cleo Thompson

Work Order #: 308248 **Project ID:** Fire Fox # 1

Lab Batch #: 728862 **Sample:** 308248-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 728862 **Sample:** 308248-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

Lab Batch #: 728862 **Sample:** 512593-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0279	0.0300	93	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 728862 **Sample:** 512593-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 728862 **Sample:** 512593-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: J. Cleo Thompson

Work Order #: 308248 **Project ID:** Fire Fox # 1

Lab Batch #: 728925 **Sample:** 308226-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	57.2	50.0	114	70-135	

Lab Batch #: 728925 **Sample:** 308226-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.3	100	95	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 728925 **Sample:** 308248-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.3	100	93	70-135	
o-Terphenyl	49.8	50.0	100	70-135	

Lab Batch #: 728925 **Sample:** 308248-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.9	100	95	70-135	
o-Terphenyl	49.5	50.0	99	70-135	

Lab Batch #: 728925 **Sample:** 308248-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	100	94	70-135	
o-Terphenyl	49.9	50.0	100	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: J. Cleo Thompson

Work Order #: 308248 **Project ID:** Fire Fox # 1

Lab Batch #: 728925 **Sample:** 308248-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	100	94	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

Lab Batch #: 728925 **Sample:** 308248-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.7	100	93	70-135	
o-Terphenyl	48.8	50.0	98	70-135	

Lab Batch #: 728925 **Sample:** 512641-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	55.9	50.0	112	70-135	

Lab Batch #: 728925 **Sample:** 512641-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	53.7	50.0	107	70-135	

Lab Batch #: 728925 **Sample:** 512641-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg

TPH by SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	62.9	50.0	126	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: J. Cleo Thompson

Work Order #: 308248 **Project ID:** Fire Fox # 1

Lab Batch #: 728629 **Sample:** 728629-1-BKS **Matrix:** Solid

Date Analyzed: 07/21/2008 **Date Prepared:** 07/21/2008 **Analyst:** IRO

Reporting Units: mg/kg **Batch #:** 1

		BLANK /BLANK SPIKE RECOVERY STUDY				
Inorganic Anions by EPA 300 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	10.8	108	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: J. Cleo Thompson

Work Order #: 308248 **Project ID:** Fire Fox # 1

Analyst: BRB **Date Prepared:** 07/23/2008 **Date Analyzed:** 07/23/2008

Lab Batch ID: 728862 **Sample:** 512593-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.0500	0.0500	100	0.05	0 0508	102	2	70-130	35	
Toluene	ND	0.0500	0.0460	92	0.05	0.0500	100	8	70-130	35	
Ethylbenzene	ND	0.0500	0.0496	99	0.05	0.0542	108	9	71-129	35	
m,p-Xylenes	ND	0.1000	0.1041	104	0.1	0.1117	112	7	70-135	35	
o-Xylene	ND	0.0500	0.0500	100	0.05	0.0541	108	8	71-133	35	

Analyst: ASA **Date Prepared:** 07/24/2008 **Date Analyzed:** 07/24/2008

Lab Batch ID: 729030 **Sample:** 729030-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH by EPA 418.1	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	ND	250	337	135	250	304	122	10	65-135	35	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: J. Cleo Thompson

Work Order #: 308248
Analyst: IRO
Lab Batch ID: 728925
Sample: 512641-1-BKS
Units: mg/kg

Date Prepared: 07/22/2008
Batch #: 1

Project ID: Fire Fox # 1
Date Analyzed: 07/24/2008
Matrix: Solid

TPH by SW8015 Mod Analytes	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1000	875	88	1000	998	100	13	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	900	90	1000	1030	103	13	70-135	35	

Relative Percent Difference RPD = 200*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS Recoveries

Project Name: J. Cleo Thompson

Work Order #: 308248
Lab Batch #: 728629
Date Analyzed: 07/21/2008
QC- Sample ID: 308248-001 S
Reporting Units: mg/kg

Date Prepared: 07/21/2008
Batch #: 1

Project ID: Fire Fox # 1
Analyst: IRO
Matrix: Soil

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	55.4	217	315	120	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes

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Form 3 - [illegible]S / MSD Recoveries

Project Name: J. Cleo Thompson

ACCREDITED IN ACCORDANCE WITH nelac

Work Order # : 308248 **Project ID:** Fire Fox # 1

Lab Batch ID: 728862 **QC- Sample ID:** 308226-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 07/23/2008 **Date Prepared:** 07/23/2008 **Analyst:** BRB

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	ND	0.0535	0.0258	48	0.0535	0.0328	61	24	70-130	35	X
Toluene	ND	0.0535	0.0225	42	0.0535	0.0314	59	34	70-130	35	X
Ethylbenzene	ND	0.0535	0.0215	40	0.0535	0.0321	60	40	71-129	35	XF
m,p-Xylenes	ND	0.2141	0 0400	19	0.1071	0.0633	59	103	70-135	35	XF
o-Xylene	ND	0.0535	0 0228	43	0.0535	0.0321	60	33	71-133	35	X

Lab Batch ID: 729030 **QC- Sample ID:** 308248-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 07/24/2008 **Date Prepared:** 07/24/2008 **Analyst:** ASA

Reporting Units: mg/kg

TPH by EPA 418.1 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
TPH, Total Petroleum Hydrocarbons	90.6	2710	3230	116	2710	3120	112	4	65-135	35	

Lab Batch ID: 728925 **QC- Sample ID:** 308226-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 07/24/2008 **Date Prepared:** 07/22/2008 **Analyst:** IRO

Reporting Units: mg/kg

TPH by SW8015 Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1070	909	85	1070	849	79	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1070	955	89	1070	879	82	8	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E
Relative Percent Difference RPD = 200*(D-G)/(D+G)

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Sample Duplicate Recovery

Project Name: J. Cleo Thompson

Work Order #: 308248

Lab Batch #: 728629 **Project ID:** Fire Fox # 1

Date Analyzed: 07/21/2008 **Date Prepared:** 07/21/2008 **Analyst:** IRO

QC- Sample ID: 308248-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	55.4	53.9	3	20	

Lab Batch #: 728430

Date Analyzed: 07/18/2008 **Date Prepared:** 07/18/2008 **Analyst:** WRU

QC- Sample ID: 308226-003 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	24 1	23.4	3	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

A Xenco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa Texas 79765

Phone 432-563-1800
Fax 432-563-1713

Project Manager: Logan Anderson
Company Name: Elke Environmental
Company Address: P O Box 14167
City/State/Zip: Odessa, TX 79768
Telephone No: 432-366-0043
Sampler Signature: Jason Jessup
Fax No: 432-366-0884
e-mail: la_elkeenv@yahoo com

Project Name: J. Cleo Thompson
Project #: Fire Fox #1
Project Loc: Eddy County, NM
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 308248

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW - Drinking Water SL - Sludge GW - Groundwater S - Soil/Solid NP - Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	TP #1		6'	7-15	10:30		1	X								S	X			X					X							X
02	TP #2		6'	7-15	10:45		1	X								S	X			X					X							X
03	TP #3		6'	7-17	10:30		1	X								S	X			X					X							X
04	TP #4		6'	7-17	10:45		1	X								S	X			X					X							X
05	TP #5		8'	7-15	11:00		1	X								S	X			X					X							X

Analyze For: TCLP / TOTAL

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time
Jason Jessup	7-18-08	2 07			
			Received by ELOT: Andrea Lam	7-18-08	2 07

Laboratory Comments

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	(N)
Sample Hand Delivered	Y	N
by Sampler/Client Rep.?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: 4.0 °C (#0246425)

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env.

Date/ Time: 7.18.08 2:07

Lab ID #: 308148

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	4.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: Logan Contacted by: Andrea Date/ Time: 7.18.08 14:53

Regarding: Sample should be getting 8015M not 8015B as stated on the COC.

Corrective Action Taken.

Check all that Apply

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event