Environmental & Safety Solutions, Inc.

Electronic Correspondence

September 5, 2017

APPROVED
By Olivia Yu at 1:26 pm, Sep 22, 2017

NMOCD grants closure to 1RP-4564.

Ms. Olivia Yu
Environmental Specialist, District I
Oil Conservation Division, EMNRD
Olivia.yu@state.nm.us

Re: Closure Report - 4564
Enervest Operating Jack B-30 #2 Tank Battery Lightning Strike
Legal: Unit B, Sec 30, T24S R37E, Lea County, NM
Latitude/Longitude: 32.1946487/ -103.1989975
Etech Proj. Number: 498-7876-000
Depth to Groundwater: 117-121 feet - Chevron/Texaco Lea County Depth to Groundwater Map
- USGS National Water Information System: Web Interface
Release Type: Produced Water and Crude Oil

Contaminants of Concern (COCs)	Threshold Levels
TPH	5000 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg
Chlorides	600 mg/kg

Dear Olivia:

Etech Environmental & Safety Solutions, Inc. (Etech) is submitting the following corrective action plan on the aforementioned site for your review and approval.

Background

On January 15, 2017, lightning struck tanks located at the Enervest Operating Jack B-30 #2 lease causing a release of fluids inside the location's soil containment, and a small amount of fluid on the adjoining well pad and pasture. Approximately 80 barrels (bbls) of produced water and ten (10) bbls of crude oil were released. Approximately 85 bbls of fluid were recovered and disposed. Tank bottoms and solids were jetted using a hot oiler and taken to disposal.

An assessment and initial sampling were conducted of the impacted area on January 23, 2017 by Etech. It was determined that the release was inside the soil containment, on the well pad, and on the pasture. The release impacted an area of approximately 10,270 square feet.

Soil samples were collected by hand auger from four (4) locations of the impacted area (See Annotated Aerial Imagery). The results of field tests of the soil samples determined that chloride levels ranged from less than 320 mg/kg to 1100 mg/kg (See Attachment A, Annotated Aerial Imagery). In addition, the field tested soil samples displaying concentrations less than 320 mg/kg were submitted to Permian Basin Environmental Laboratory (PBELAB) and analyzed for chlorides, TPH, benzene, and BTEX. The laboratory results determined that the chloride levels ranged from 8.5 mg/kg to 68.2 mg/kg, TPH levels ranged from no analytical detection to 8,150 mg/kg, benzene levels ranged from no analytical detection to

0.0581 mg/kg, and BTEX levels ranged from no analytical detection to 0.6262 mg/kg (See Table 1, Summary of Delineation Sampling Analytical Results below).

Depth to Groundwater Data

Depth to groundwater data was obtained from the Chevron/Texaco Lea County Depth to Groundwater Map and the USGS National Water Information System: Web Interface. The New Mexico Office of the State Engineer (OSE) Hydrology Bureau collaborates with the U. S. Geological Survey (USGS) to collect, store and make available measurements of water levels in over 2,200 wells across the state of New Mexico. Therefore, OSE groundwater data is part of the USGS National Water Information System database.

The USGS data correlates well with the Chevron/Texaco Lea County Depth to Groundwater Map data. The data points nearest the Jack B-30 #2 indicate that the depth to groundwater is between 117 feet (USGS 321131103115601 24S.37E.19.234442) to 121 feet (USGS 321127103112801 24S.37E.20.333441) below ground surface (bgs). These data points are approximately .22 miles north and .52 miles southeast of the Jack B-30 #2 location, respectively. In contrast, shallower depth to groundwater data points is observed approximately 1.77 miles to over 2.0 miles away from the Jack B-30 #2 location.

Attachment D contains an image of the pertinent area of the Chevron/ Texaco Lea County Depth to Groundwater Map with the location of the Jack B-30 #2 denoted, a map displaying the location of the Jack B-30 #2 and surrounding USGS data points, and the data files for the USGS data points displayed on the map.

Work Performed

On February 9, 2017, a third party contractor (Panther Energy Services) was mobilized to the site to begin remediation by removal in an attempt to prevent further vertical migration of constituents of concern. A backhoe was utilized to excavate the impacted area approximately twelve (12) inches to twenty-four (24) inches below ground surface (bgs). A total of approximately four hundred eight (408) cubic yards of impacted soil were excavated and hauled for disposal at Sundance Services, Incorporated.

On February 17, 2017, Etech returned to the site to conduct additional delineation soil sampling and confirmation soil sampling. Delineation soil sampling was conducted utilizing a backhoe to excavate six (6) test trenches and collect twenty-three (23) soil samples labeled Test Trench 1 6.5', Test Trench 1 8', Test Trench 2 8', Test Trench 2 9', Test Trench 3 6', Test Trench 3 8.5', Test Trench 4 5.5', Test trench 4 7.5', Test Trench 5 2' through Test Trench 5 9', and Test Trench 6 2' through Test Trench 6 8' (See Annotated Aerial Imagery). The soil samples were submitted to PBELAB to be analyzed for chloride concentrations. In addition, six (6) confirmation soil samples labeled Bottom Hole 1 6", Bottom Hole 2 24 ", Bottom Hole 3 18", Bottom Hole 4 6", Bottom Hole 5 12", and Bottom Hole 6 12" were collected from the bottom of the excavation (See Attachment B, Annotated Aerial Imagery). The soil samples were submitted to PBELAB and analyzed for chlorides, TPH, benzene, and BTEX.

The laboratory results for the samples collected from the test trenches determined that the chloride levels ranged from 14.1 mg/kg to 1,900 mg/kg (See Table 1 Summary of Delineation Sampling Analytical Results below). The laboratory results for the bottom hole samples determined that the chloride levels ranged from 48.8 mg/kg to 1,180 mg/kg, TPH levels ranged from no analytical detection to 10,700 mg/kg, benzene levels ranged from no analytical detection to 0.509 mg/kg, and BTEX levels ranged from no analytical detection to 39.349 mg/kg (See Table 2, Summary of Remediation Sampling Analytical Results below). It should be noted that precipitation from a rain event that occurred approximately on Sunday February 12, 2017 apparently caused chlorides to wick to and concentrate at surface depths of the excavation in the pasture. Sample results from delineation soil samples collected on January 23, 2017 determined the range of chloride concentrations to be 14.9 to 43.2 mg/kg at or above the current

excavation depths. The chloride concentrations now range from 1,130 to 1,180 mg/kg as determined from confirmation soil samples collected on February 17, 2017.

On April 11, 2017, Etech returned to the site to conduct additional delineation soil sampling at the Bottom Hole 5 and Test Trench 5 location in order to delineate chloride concentrations to below 600 mg/kg. An air rotary drill rig was utilized to perform one (1) boring and collect three (3) soil samples labeled Boring 1 10', Boring 1 15', and Boring 1 20' (See Attachment B, Annotated Aerial Imagery and Attachment C, Well Record & Log). The soil samples were submitted to PBELAB and analyzed for chlorides.

The laboratory results for the samples collected from the boring determined that chloride levels were below 600 mg/kg and ranged from 6.73 mg/kg to 10.7 mg/kg (See Table 1, Summary of Delineation Sampling Analytical Results below). It appears that a layer of cemented sandstone (caliche) observed in the bottom of Test Trench 5 and in Boring 1 prevented the further downward migration of chlorides.

On May 8 2017, Etech returned to the site to conduct field oversight of excavation, chloride testing, and confirmation soil sampling. Excavation was conducted by Panther Energy Services utilizing a backhoe. The impacted area was excavated to approximately twenty-four (24) inches to forty-eight (48) inches below ground surface (bgs). Final depths of excavation were determined by field chloride testing and visual and olfactory observation. This included the excavation of apparent historical impact uncovered on May 9, 2017 in the northwest portion of the pad area. The final excavation depth of this portion of the pad area was approximately forty-eight (48) inches bgs. A total of approximately seven hundred eight (708) cubic yards of impacted soil were excavated and hauled for disposal at Sundance Services, Incorporated.

Seventeen (17) confirmation soil samples labeled Bottom Hole 2A, Bottom Hole 3A, Bottom Hole 5A, Bottom Hole 6A, Bottom Hole 7, and Sidewall 1 through Sidewall 12 were collected (See Attachment B, Annotated Aerial Imagery). The soil samples were submitted to PBELAB and analyzed for chlorides and/or TPH, benzene, and BTEX.

The laboratory results for the samples collected determined that chloride, TPH, benzene, and BTEX levels were below regulatory threshold limits. Chloride levels ranged from no analytical detection to 454 mg/kg. TPH levels ranged from no analytical detection to 38.9 mg/kg. Benzene and BTEX levels were no analytical detection for all samples (See Table 2, Summary of Remediation Sampling Analytical Results below).

On June 19, 2017, Panther Energy Services returned to the site to begin backfilling and restoration activities utilizing a backhoe. The pasture area was backfilled with clean soil of the same type as excavated and seeded with BLM #2 via hand broadcasting. The pad area was backfilled with caliche. The installation of the plastic liner in the pad area was completed on July 12, 2017. The rebuilding of the tank battery was completed on August 1, 2017 (See Attachment D, Photograph Log).

A summary of the depth and method of remediation for the site is provided below in Table 3, Summary of Depth and Method of Remediation.

Table 1
Summary of Delineation Sampling Analytical Results

Sample ID	Depth	Date	C6-C12	>C12-C28	>C28-C35	Total TPH (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)

Auger Hole 1	6-12”	1/23/17	ND	ND	ND	ND	ND	ND	22.6
Auger Hole 1	12-18”	1/23/17	ND	ND	ND	ND	ND	ND	11.2
Auger Hole 2	18-24”	1/23/17	ND	ND	ND	ND	0.00137	0.00137	43.2
Auger Hole 2	30-36”	1/23/17	ND	ND	ND	ND	ND	ND	9.71
Auger Hole 3	0-6”	1/23/17	1,200	5,710	1,230	**8,150**	0.0581	26.3181	8.45
Auger Hole 3	6-12”	1/23/17	ND	105	ND	105	0.00171	0.00665	14.9
Auger Hole 4	0-6”	1/23/17	ND	390	65.3	456	ND	0.6262	68.2
Auger Hole 4	6-12”	1/23/17	ND	71.5	ND	71.5	0.00144	0.00144	19.0
Test Trench 1	6.5’	2/17/17	NA	NA	NA	NA	NA	NA	67.6
Test Trench 1	8’	2/17/17	NA	NA	NA	NA	NA	NA	155
Test Trench 2	8’	2/17/17	NA	NA	NA	NA	NA	NA	32.2
Test Trench 2	9’	2/17/17	NA	NA	NA	NA	NA	NA	169
Test Trench 3	6’	2/17/17	NA	NA	NA	NA	NA	NA	14.1
Test Trench 3	8.5’	2/17/17	NA	NA	NA	NA	NA	NA	66.0
Test Trench 4	5.5’	2/17/17	NA	NA	NA	NA	NA	NA	215
Test Trench 4	7.5’	2/17/17	NA	NA	NA	NA	NA	NA	34.2
Test Trench 5	2’	2/17/17	ND	201	53.8	255	NA	NA	395
Test Trench 5	3’	2/17/17	NA	NA	NA	NA	NA	NA	315
Test Trench 5	4’	2/17/17	NA	NA	NA	NA	NA	NA	412
Test Trench 5	5’	2/17/17	NA	NA	NA	NA	NA	NA	257
Test Trench 5	6’	2/17/17	NA	NA	NA	NA	NA	NA	192
Test Trench 5	7’	2/17/17	NA	NA	NA	NA	NA	NA	308
Test Trench 5	8’	2/17/17	NA	NA	NA	NA	NA	NA	418
Test Trench 5	9’	2/17/17	NA	NA	NA	NA	NA	NA	988
Test Trench 6	2’	2/17/17	NA	NA	NA	NA	NA	NA	**1,900**
Test Trench 6	3’	2/17/17	NA	NA	NA	NA	NA	NA	123
Test Trench 6	4’	2/17/17	NA	NA	NA	NA	NA	NA	261
Test Trench 6	5’	2/17/17	NA	NA	NA	NA	NA	NA	209
Test Trench 6	6’	2/17/17	NA	NA	NA	NA	NA	NA	326
Test Trench 6	7’	2/17/17	NA	NA	NA	NA	NA	NA	387
Test Trench 6	8’	2/17/17	NA	NA	NA	NA	NA	NA	410
Boring 1	10’	4/11/17	NA	NA	NA	NA	NA	NA	10.7
Boring 1	15’	4/11/17	NA	NA	NA	NA	NA	NA	6.73
Boring 1	20’	4/11/17	NA	NA	NA	NA	NA	NA	8.37

ND denotes no analytical detection.
NA denotes not applicable
Bold denotes analytical results above regulatory guidelines

Table 2
Summary of Remediation Sampling Analytical Results

Sample ID	Depth	Date	C6-C12	>C12-C28	>C28-C35	Total TPH (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
Bottom Hole 1	6”	2/17/17	ND	ND	ND	ND	ND	ND	48.8
Bottom Hole 2	24”	2/17/17	ND	ND	ND	ND	ND	ND	**1,130**
Bottom Hole 3	18”	2/17/17	ND	42.4	ND	42.4	ND	ND	**1,180**
Bottom Hole 4	6”	2/17/17	31.4	179	ND	210	ND	ND	609

Bottom Hole 5	12”	2/17/17	4,330	5,520	847	**10,700**	0.509	39.349	391
Bottom Hole 6	12”	2/17/17	102	375	51.9	529	ND	0.43	**1,330**
Bottom Hole 2A	36”	5/12/17	NA	NA	NA	NA	NA	NA	397
Bottom Hole 3A	24”	5/8/17	NA	NA	NA	NA	NA	NA	135
Bottom Hole 5A	36”	5/12/17	ND	ND	ND	ND	ND	ND	NA
Bottom Hole 6A	48”	5/9/17	NA	NA	NA	NA	NA	NA	17.9
Bottom Hole 7	48”	5/9/17	ND	ND	ND	ND	ND	ND	36.7
Sidewall 1	18”	5/8/17	ND	ND	ND	ND	ND	ND	ND
Sidewall 2	18”	5/8/17	ND	ND	ND	ND	ND	ND	ND
Sidewall 3	30”	5/12/17	ND	ND	ND	ND	ND	ND	ND
Sidewall 4	30”	5/12/17	ND	ND	ND	ND	ND	ND	7.00
Sidewall 5	42”	5/9/17	ND	ND	ND	ND	ND	ND	76.7
Sidewall 6	42”	5/9/17	ND	ND	ND	ND	ND	ND	293
Sidewall 7	42”	5/10/17	ND	ND	ND	ND	ND	ND	45.1
Sidewall 8	42”	5/10/17	ND	ND	ND	ND	ND	ND	44.1
Sidewall 9	42”	5/9/17	ND	ND	ND	ND	ND	ND	ND
Sidewall 10	30”	5/12/17	ND	38.9	ND	38.9	ND	ND	ND
Sidewall 11	30”	5/12/17	ND	ND	ND	ND	ND	ND	ND
Sidewall 12	30”	5/12/17	ND	ND	ND	ND	ND	ND	454

ND denotes no analytical detection.
NA denotes not analyzed
Bold denotes analytical results above regulatory guidelines

Depth and Method of Remediation

The following table displays the depth and method of remediation for each of the sample location areas. In addition, it describes whether the sample location is on the pad or in the pasture and the status of the remediation.

Table 3
Summary of Depth and Method of Remediation

Sample Location	Location Type	Depth (bgs)	Method of Remediation	Status
Bottom Hole 1	Pad	6”	Excavation	Completed
Bottom Hole 2	Pasture	36”	Excavation	Completed
Bottom Hole 3	Pasture	24”	Excavation	Completed
Bottom Hole 4	Pad	6”	Excavation	Completed
Bottom Hole 5	Pad	36”	Excavation/Plastic Liner	Excavation Completed Plastic Liner Installed
Bottom Hole 6	Pad	48”	Excavation/Plastic Liner	Excavation Completed Plastic Liner Installed
Bottom Hole 7	Pad	48”	Excavation/Plastic Liner	Excavation Completed Plastic Liner Installed

Conclusion

The final analytical results yielded TPH, benzene, BTEX, and chloride concentrations below regulatory guidelines. Based on the analytical results and the field activities conducted, Etech does not recommend any further corrective action activities regarding this release.

Respectfully:

Geoff Leking,
Project Manager
Etech Environmental & Safety Solutions, Inc.

Attachment A
Initial C-141
Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Enervest Operating	Contact Penny Dawson
Address 1217 Hwy 128 West Jal, NM 88252	Telephone No. 325-387-7226
Facility Name Jack B-30 #2	Facility Type Tank Battery

Surface Owner Randy Crawford	Mineral Owner State of NM/Enervest	API No. 3002525871

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	30	24 S	37 East	330'	North	1725'	East	Lea County

Latitude 32 11' 172 Longitude 103 7' 944 32.1946487,-103.1989975

NATURE OF RELEASE

Type of Release Producede Water and Oil	Volume of Release 80 bbl PW/ 10 Oil Volume Recovered 76 bbl PW/9 Oil
Source of Release Tank - Lightening Strike	Date and Hour of Occurrence 1/15/17 Date and Hour of Discovery 9:15 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Olivia Yu, OCD Shelly Tucker, BLM
By Whom? Penny Dawson	Date and Hour 1/17/17 8:00 am
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
By Olivia Yu at 3:16 pm, Jan 17, 2017

Describe Cause of Problem and Remedial Action Taken.*

Lightening struck tanks. Truck picked up oil and water from inside berm and moved oil out of tanks to other oil tank. Picked up water from outside on ground also. Berm put in around 2000, no liner.

Describe Area Affected and Cleanup Action Taken.*

300 bbl fiberglass tank and two 300 bbl steel tanks affected. Liquids inside berm and a small amount outside. Area also burned. Move everything off of location, put in liner. Hauling off contaimenated soil and bring in new.

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:	OIL CONSERVATION DIVISION
Printed Name: Penny Dawson	Approved by Environmental Specialist:
Title: HSE Associate	Approval Date: 01/17/2017 Expiration Date:
E-mail Address: pdawson@enervest.net	Conditions of Approval: see attached directive Attached ☑
Date: 01/17/2017 Phone: 325-387-7226	

* Attach Additional Sheets If Necessary

nOY1701753606 RP4564

pOY1701753884

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 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Enervest Operating	Contact: Penny Dawson
Address: 1217 Hwy 128 West Jal, NM 88252	Telephone No.: 325-387-7226
Facility Name: Jack B-30 #2	Facility Type: Tank Battery

Surface Owner: Randy Crawford	Mineral Owner: State of New Mexico/Enervest	API No.: 30-025-25871-00-00

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	30	24S	37E	330	North	1,725	West	Lea

Latitude: 32.1946487 **Longitude:** -103.1989975

NATURE OF RELEASE

Type of Release: Produced water and oil	Volume of Release: 80 bbls PW/ 10 bbls Oil	Volume Recovered: 76 bbls PW/9 bbls Oil
Source of Release: Tank - lightning strike	Date and Hour of Occurrence: 1/15/2017	Date and Hour of Discovery: 1/15/2017 - 9:15 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Oliva YU - NMOCD Shelly Tucker - BLM	
By Whom? Penny Dawson	Date and Hour 1/17/2017 - 8:00 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

APPROVED
By Olivia Yu at 1:28 pm, Sep 22, 2017

If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: Lightning struck tanks. Truck picked up oil and water from inside berm and moved oil out of tanks to other oil tank. Picked up water from outside on ground also. Berm put in around 2000, no liner.

Describe Area Affected and Cleanup Action Taken.* : One (1) three hundred (300) barrel fiberglass tank and two (2) three hundred (300) barrel steel tanks affected. Liquids inside berm and a small amount outside. Area also burned. Approximately 10,270 square feet of area was affected including all of the tank battery pad, parts of the well pad north and east of the tank battery pad, and parts of the pasture south and west of the tank battery pad. Tanks and associated structures were moved off of the tank battery pad. The tank battery pad was excavated to depths of thirty-six (36) inches to forty-eight (48) inches below ground surface (bgs). The well pad was excavated to six (6) inches bgs. The pasture was excavated twenty-four (24) to thirty-six (36) inches bgs. Approximately seven hundred eight (708) cubic yards of excavated soil were transported and disposed of at Sundance Services, Incorporated - Eunice, New Mexico. The tank battery pad and well pad were backfilled with clean caliche. The pasture was backfilled with clean soil of the type as excavated and seeded with BLM #2 seed mix via hand broadcasting. The installation of the plastic liner at the tank battery pad was completed on July 12, 2017. The rebuilding of the tank battery was completed on August 1, 2017.

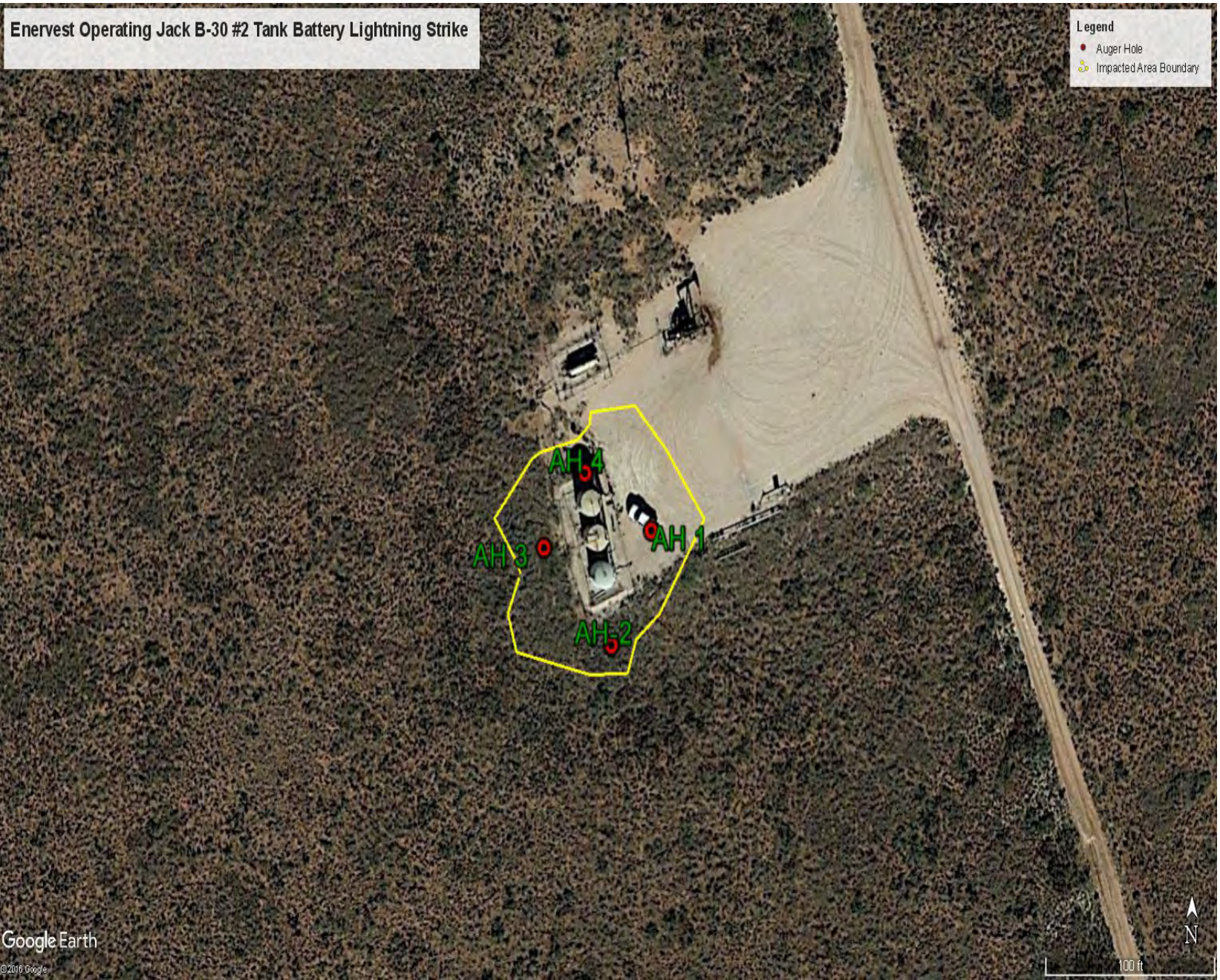
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Penny Dawson	OIL CONSERVATION DIVISION
Printed Name: Penny Dawson	Approved by District Supervisor:
Title: HSE Associate	Approval Date: 9/22/2017 Expiration Date: xx/xx/xxxx
E-mail Address: pdawson@enervest.net	Conditions of Approval: Attached ☐
Date: 9/5/2017 Phone: 325-387-7226	

1RP-4564

Attachment B
Annotated Aerial Imagery

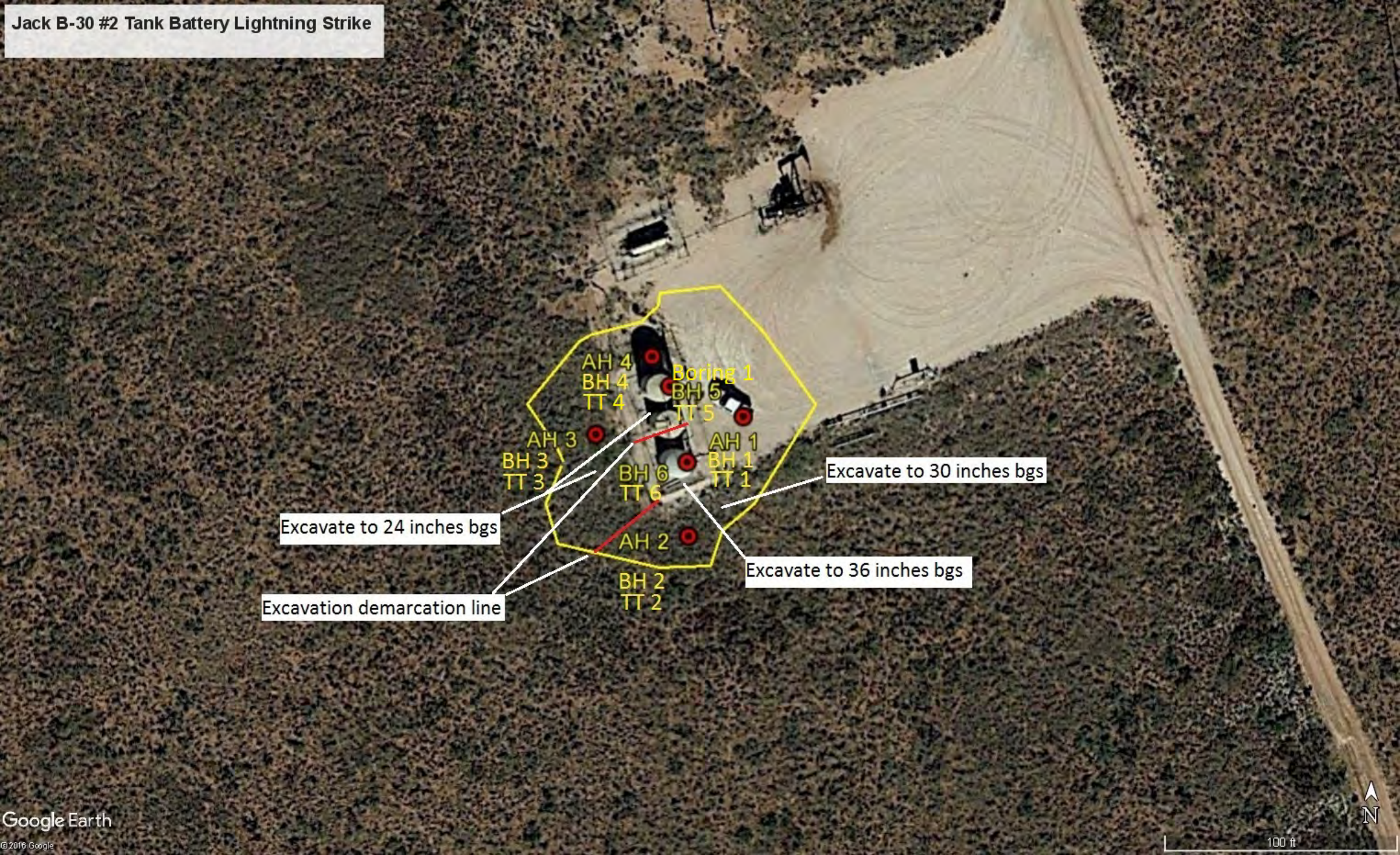
Delineation & Assessment Report ©	Lease Name:	Enervest Jack B-30 #2 Lightning Strike	Case No.:	Event 4564
	Date Assessed:	1/23/17		



Assessment Results

Sample I.D.	Depth (ft.)	Chlorides (mg/kg)
AH 1	0-6”	320
AH 1	6-12”	<320
AH 1	12-18”	<320
AH 2	0-6”	910
AH 2	6-12”	1100
AH 2	12-18”	510
AH 2	18-24”	<320
AH 2	30-36”	<320
AH 3	0-6”	<320
AH 3	6-12”	<320
AH 4	0-6”	<320
AH 4	6-12”	<320

Above results based on field tests.


Jack B-30 #2 Tank Battery Lightning Strike
AH 4
BH 4
TT 4
Boring 1
BH 5
TT 5
AH 3
BH 3
TT 3
AH 1
BH 1
TT 1
BH 6
TT 6
AH 2
BH 2
TT 2
Excavate to 30 inches bgs
Excavate to 24 inches bgs
Excavate to 36 inches bgs
Excavation demarcation line
Google Earth
© 2016 Google
N
100 ft


Enervest Jack B-30 #2
Tank Battery Lightning Strike
1RP-4564
May 12, 2017 Remediation
Legend
BH
May 12, 2017 Excavation Outlined in Red
SW
SW 2
SW 8
BH 4
SW 3
36 inches
BH 5A
SW 4
BH 7
SW 7
SW 9
BH 1
BH 3A
48 inches
SW 1
24 inches
BH 6A
SW 5
SW 6
SW 10
36 inches
BH 2A
SW 12
SW 11
Google Earth
© 2016 Google
N
40 ft

Attachment C
Well Record & Log

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NUMBER (WELL NUMBER): JACK B -30 #2 SB-1	OSE FILE NUMBER(S):
WELL OWNER NAME(S): ENERVEST OPERATING	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 1217 HWY128 WEST	CITY: JAL / STATE: NM / ZIP: 88252

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	11	40.3	N
LONGITUDE	103	11	56.8	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

FROM INTERSECTION OF HWY18 E KANSAS GO N 5.37 MI TURN L GO W CONTINUE DIRT RD FOR .55 MI TURN R TO LOCATION.

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1711	EDWARD BRYAN	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
4-11-17	4-11-17	20'	20'	N/A

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

COMPLETED WELL IS: ○ ARTESIAN ◉ DRY HOLE ○ SHALLOW (UNCONFINED)

DRILLING FLUID: ◉ AIR ○ MUD ADDITIVES – SPECIFY

DRILLING METHOD: ◉ ROTARY ○ HAMMER ○ CABLE TOOL ○ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	20'	6"	N/A	N/A	N/A	N/A	N/A

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	2'	6"	1 CEMENT		TOPLOAD
2	20'	6"	6 BAGS OF 3/8 HOLEPLUG		TOPLOAD

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	1'	1'	TAN FINE SAND - CALICHE	○ Y ◉ N	N/A
1'	6'	5	RED VERY FINE SAND - WITH CLAY	○ Y ◉ N	N/A
6'	20'	14'	TAN FINE SAND - CEMENTED SANDSTONE	○ Y ◉ N	N/A
TD	20'			○ Y ◉ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	
				○ Y ○ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ○ PUMP ○ AIR LIFT ○ BAILER ○ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

SOIL BORING ONLY - SOIL BORING WAS PLUGGED AND ABANDONED UPON COMPLETION OF SAMPLING.
LEA COUNTY, NM

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

Edward Bryan — 4-13-17

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 2 OF 2

Attachment D
Photograph Log

View of front of tank battery looking to the southwest.

View of tank battery containment looking to the northwest.

View of well pad east of the tank battery looking north.

View of pasture south of tank battery looking west.

View of pasture west of tank battery looking northwest.

View of well pad north of tank battery looking south.

View of boring Auger Hole 1.

View of boring Auger Hole 2.

View of boring Auger Hole 3 (center foreground).

View of boring Auger Hole 4.

View of front of tank battery looking west after remediation activities.

View of well pad east of the tank battery looking west after remediation activities.

View of pasture south of tank battery looking southwest after remediation activities.

View of pasture west of tank battery looking northwest after remediation activities.

View of well pad north of tank battery looking south after remediation activities.

View of Bottom Hole 1 sample location.

View of Bottom Hole 2 sample location.

View of Bottom Hole 3 sample location.

View of Bottom Hole 4 sample location.

View of Test Trench 1 after excavation.

View of Test Trench 2 after excavation.

View of Test Trench 3 after excavation.

View of Test Trench 4 during excavation.

View of Test Trench 5 after excavation.

View of Test Trench 6 after excavation.

View of Test Trench 1 after backfill.

View of Test Trench 2 after backfill.

View of Test Trench 3 after backfill.

View of Test Trench 4 after backfill.

View of Test Trench 5 after backfill.

View of Test Trench 6 after backfill.

View of air rotary drill rig preparing to perform Boring 1.

View of performance of Boring 1.

View of Boring 1 at completion.

View of Boring 1 after plugging and abandonment.

View of pasture south of tank battery pad looking southeast. Sample locations Bottom Hole 2A, Sidewall 10, and Sidewall 11 visible.

View of pasture south of tank battery pad looking southeast. Sample locations Sidewall 11 and Sidewall 12 visible.

View of pasture west of the tank battery pad looking north. Sample locations Bottom Hole 3A, Sidewall 1, and Sidewall 2 visible.

View of the tank battery pad looking north. Sample locations Bottom Hole 5A, Sidewall 3, and Sidewall 4 visible.

View of tank battery pad looking northeast. Sample locations Bottom Hole 6A, Sidewall 4, and Sidewall 5 visible.

View of tank battery pad looking north. Sample location Sidewall 6 is in foreground. Sample locations Bottom Hole 7, Sidewall 7, Sidewall 8, Sidewall 9, Bottom Hole 5A and Sidewall 3 are in background.

View of tank battery pad looking north. Close up view of sample locations Bottom Hole 7, Sidewall 7, Sidewall 8 and Sidewall 9.

View of tank battery pad looking south. Sample locations Bottom Hole 5A, Sidewall 4, and Sidewall 9 are in the foreground.

View of tank battery pad looking south. Sample locations Bottom Hole 7A, Sidewall 7, Sidewall 9, and Bottom Hole 5A (far left of photo with top of pin flag out of view) are in the foreground.

View of tank battery pad looking southwest after the completion of backfilling and restoration activities. Soil in background is fill for the west pasture.

View of pasture south of tank battery pad looking southwest after the completion of backfilling and restoration activities.

View of pasture south of tank battery pad looking southeast after the completion of backfilling and restoration activities.

View of pasture west of tank battery pad looking north after the completion of backfilling and restoration activities.

View of pasture west of tank battery pad looking south after the completion of backfilling and restoration activities.

View of pasture west of tank battery pad looking southwest while BLM #2 seed mix is being hand broadcasted.

View of tank battery pad looking southwest after the installation of the plastic liner and tank ring bases.

View of tank battery pad looking northwest after installation of tanks, stairs, catwalk, and pea gravel.

View of tank battery pad looking southwest after the completion of tank battery rebuilding activities.

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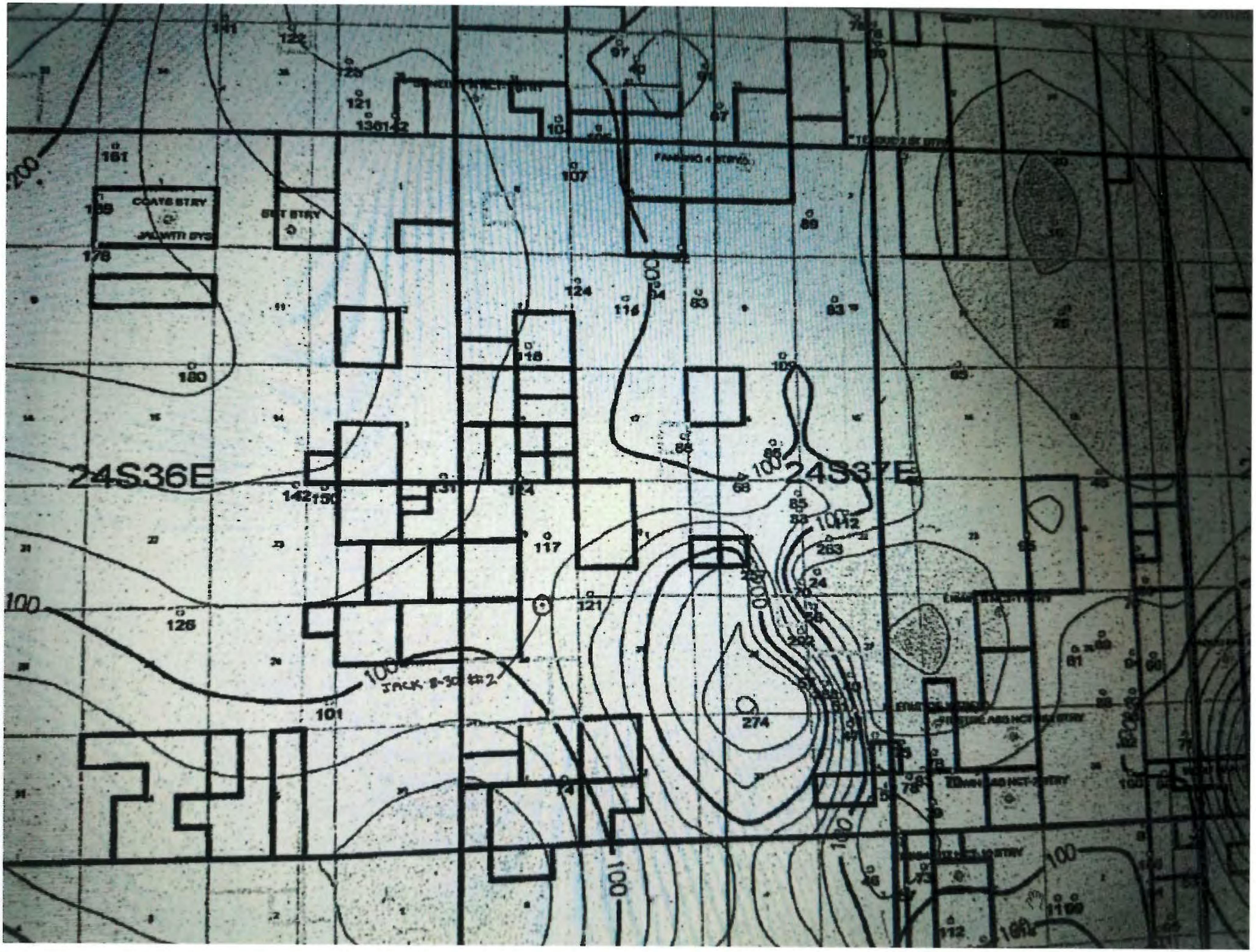
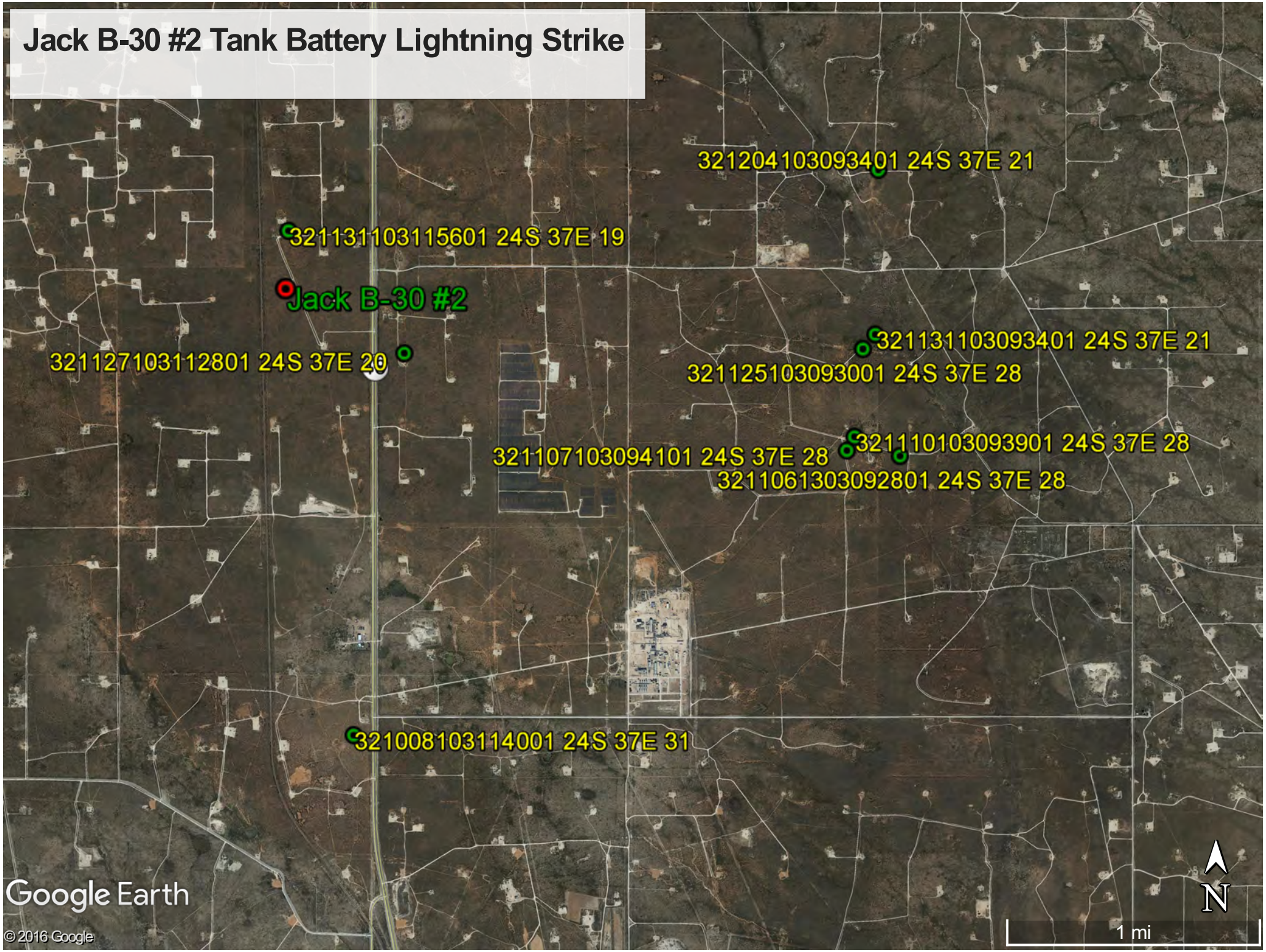
Attachment E
Depth to Groundwater Data


24S36E
24S37E
COATS STRY
SET STRY
FANNING 4 STRYS
JACK 8-30 #2
100
200
274


Jack B-30 #2 Tank Battery Lightning Strike
3212041030934 01 24S 37E 21
321131103115601 24S 37E 19
Jack B-30 #2
321131103093401 24S 37E 21
3211271031128 01 24S 37E 20
321125103093001 24S 37E 28
3211101030939 01 24S 37E 28
321107103094101 24S 37E 28
321106130309280 1 24S 37E 28
321008103114001 24S 37E 31
Google Earth
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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321131103093401

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321131103093401 24S.37E.21.444221

Lea County, New Mexico
Latitude 32°11'31", Longitude 103°09'34" NAD27
Land-surface elevation 3,203 feet above NAVD88
The depth of the well is 74 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1953-03-02		D	69.64			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321152103115601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321152103115601 24S.37E.19.234442

Lea County, New Mexico
Latitude 32°11'52", Longitude 103°11'56" NAD27
Land-surface elevation 3,280 feet above NAVD88
The depth of the well is 160 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1953-03-05		D	117.43			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321131103093401

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321131103093401 24S.37E.21.444221

Lea County, New Mexico
Latitude 32°11'31", Longitude 103°09'34" NAD27
Land-surface elevation 3,203 feet above NAVD88
The depth of the well is 74 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1953-03-02		D	69.64			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321127103112801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321127103112801 24S.37E.20.333441

Lea County, New Mexico
Latitude 32°11'27", Longitude 103°11'28" NAD27
Land-surface elevation 3,268 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1968-02-27		D	122.07			2	R	U		
1970-12-02		D	121.60			2	R	U		
1976-01-15		D	121.55			2		U		
1981-03-18		D	121.12			2		U		
1986-03-05		D	120.69			2		U		
1991-05-21		D	120.78			2		U		
1996-02-28		D	120.54			2		S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321008103114001

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321008103114001 24S.37E.31.243442

Lea County, New Mexico
Latitude 32°10'08", Longitude 103°11'40" NAD27
Land-surface elevation 3,240 feet above NAVD88
The depth of the well is 100 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1965-10-22		D	75.98			2		U		
1970-12-10		D	74.96			2		U		
1976-01-14		D	76.17			2		U		
1981-03-18		D	74.17			2		U		
1986-03-11		D	74.90			2		U		
1991-05-22		D	73.53			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321125103093001

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321125103093001 24S.37E.28.242233

Lea County, New Mexico
Latitude 32°11'28", Longitude 103°09'37" NAD27
Land-surface elevation 3,205.00 feet above NGVD29
The depth of the well is 770 feet below land surface.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1981-03-17		D	255.43			2		U		
1986-03-05		D	263.20			2		U		
1991-05-21		D	277.06			2		U		
1996-02-28		D	291.80			2		S		
2001-03-07		D	303.74			2		S		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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USGS Water Resources

Data Category: Groundwater | Geographic Area: New Mexico | GO

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321106103092801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321106103092801 24S.37E.28.424241

Lea County, New Mexico
Latitude 32°11'06", Longitude 103°09'28" NAD27
Land-surface elevation 3,199 feet above NAVD88
The depth of the well is 110 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1977-10-27		D	57.24			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321107103094101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321107103094101 24S.37E.28.241444

Lea County, New Mexico
Latitude 32°11'07", Longitude 103°09'41" NAD27
Land-surface elevation 3,203 feet above NAVD88
The depth of the well is 80 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1976-01-14		D	57.71			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for New Mexico

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321110103093901

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321110103093901 24S.37E.28.24213

Lea County, New Mexico
Latitude 32°11'10", Longitude 103°09'39" NAD27
Land-surface elevation 3,201 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1965-10-14		D	64.46			2		U		
1968-02-26		D	64.42			2	R	U		
1970-12-10		D	64.66			2	P	U		
1976-01-14		D	64.42			2		U		
1981-03-17		D	64.39			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped.
Status	R	Site had been pumped recently.
Method of measurement	U	Unknown
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Attachment F
Analytical Results

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: Jack B-30 #2 Tank Battery Lightening Strike

Project Number: 498-7876-000

Location: JAL NM

Lab Order Number: 7A25001

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-13-3

Report Date: 02/01/17

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightening Strike
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Auger Hole 1 6-12"	7A25001-01	Soil	01/23/17 14:20	01-25-2017 09:16
Auger Hole 1 12-18"	7A25001-02	Soil	01/23/17 14:25	01-25-2017 09:16
Auger Hole 2 18-24"	7A25001-03	Soil	01/23/17 15:05	01-25-2017 09:16
Auger Hole 2 30-36"	7A25001-04	Soil	01/23/17 15:10	01-25-2017 09:16
Auger Hole 3 0-6"	7A25001-05	Soil	01/23/17 15:40	01-25-2017 09:16
Auger Hole 3 6-12"	7A25001-06	Soil	01/23/17 15:45	01-25-2017 09:16
Auger Hole 4 0-6"	7A25001-07	Soil	01/23/17 16:10	01-25-2017 09:16
Auger Hole 4 6-12"	7A25001-08	Soil	01/23/17 16:15	01-25-2017 09:16

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightening Strike
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Auger Hole 1 6-12"

7A25001-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*111 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.5 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**22.6**	1.04	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.9 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.3 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightening Strike
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Auger Hole 1 12-18''

7A25001-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.4 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**11.2**	1.05	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.4 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.0 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

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Project Manager: Tim McMinn

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Auger Hole 2 18-24"

7A25001-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.00137**	0.00109	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*92.8 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**43.2**	1.09	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.4 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.7 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

E Tech Environmental & Safety Solutions, Inc.
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Auger Hole 2 30-36"

7A25001-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*91.1 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*103 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**9.71**	1.10	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.0 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*96.1 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

E Tech Environmental & Safety Solutions, Inc.
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Auger Hole 3 0-6"

7A25001-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.0581**	0.0211	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	**1.56**	0.0421	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	**5.76**	0.0211	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	**13.4**	0.0421	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	**5.54**	0.0211	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.8 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8.45**	1.05	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1200**	263	mg/kg dry	10	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C12-C28	**5710**	263	mg/kg dry	10	P7A3005	01/27/17	01/28/17	TPH 8015M	
>C28-C35	**1230**	263	mg/kg dry	10	P7A3005	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*115 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*112 %*	*70-130*		*P7A3005*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**8150**	263	mg/kg dry	10	[CALC]	01/27/17	01/28/17	calc	

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Auger Hole 3 6-12"

7A25001-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.00171**	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	**0.00309**	0.00208	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	**0.00185**	0.00104	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*89.6 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14.9**	1.04	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C12-C28	**105**	26.0	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*93.9 %*	*70-130*		*P7A3006*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.9 %*	*70-130*		*P7A3006*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**105**	26.0	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

E Tech Environmental & Safety Solutions, Inc.
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Auger Hole 4 0-6"

7A25001-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0233	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.0465	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	**0.458**	0.0233	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	**0.107**	0.0465	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	**0.0612**	0.0233	mg/kg dry	20	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*87.0 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**68.2**	1.16	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	**14.0**	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.1	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C12-C28	**390**	29.1	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C28-C35	**65.3**	29.1	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.8 %*	*70-130*		*P7A3006*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.9 %*	*70-130*		*P7A3006*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**456**	29.1	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

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Auger Hole 4 6-12"

7A25001-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.00144**	0.00108	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P7A3012	01/26/17	01/27/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*109 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.5 %*	*75-125*		*P7A3012*	*01/26/17*	*01/27/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**19.0**	1.08	mg/kg dry	1	P7A2704	01/27/17	01/30/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7A2601	01/26/17	01/26/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C12-C28	**71.5**	26.9	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P7A3006	01/27/17	01/28/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.7 %*	*70-130*		*P7A3006*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.5 %*	*70-130*		*P7A3006*	*01/27/17*	*01/28/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**71.5**	26.9	mg/kg dry	1	[CALC]	01/27/17	01/28/17	calc	

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7A3012 - General Preparation (GC)										
Blank (P7A3012-BLK1)				Prepared: 01/26/17 Analyzed: 01/27/17						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.0527*		*"*	*0.0600*		*87.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0668*		*"*	*0.0600*		*111*	*75-125*			
LCS (P7A3012-BS1)				Prepared: 01/26/17 Analyzed: 01/27/17						
Benzene	0.0910	0.00100	mg/kg wet	0.100		91.0	70-130			
Toluene	0.0967	0.00200	"	0.100		96.7	70-130			
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130			
Xylene (p/m)	0.201	0.00200	"	0.200		101	70-130			
Xylene (o)	0.0970	0.00100	"	0.100		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0713*		*"*	*0.0600*		*119*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0562*		*"*	*0.0600*		*93.6*	*75-125*			
LCS Dup (P7A3012-BSD1)				Prepared: 01/26/17 Analyzed: 01/27/17						
Benzene	0.0901	0.00100	mg/kg wet	0.100		90.1	70-130	0.950	20	
Toluene	0.0964	0.00200	"	0.100		96.4	70-130	0.311	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	1.81	20	
Xylene (p/m)	0.200	0.00200	"	0.200		100	70-130	0.588	20	
Xylene (o)	0.0987	0.00100	"	0.100		98.7	70-130	1.70	20	
Surrogate: 4-Bromofluorobenzene	*0.0762*		*"*	*0.0600*		*127*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0578*		*"*	*0.0600*		*96.3*	*75-125*			
Matrix Spike (P7A3012-MS1)	**Source: 7A25001-01**			Prepared: 01/26/17 Analyzed: 01/27/17						
Benzene	0.122	0.00104	mg/kg dry	0.104	ND	118	80-120			
Toluene	0.109	0.00208	"	0.104	ND	105	80-120			
Ethylbenzene	0.122	0.00104	"	0.104	ND	117	80-120			
Xylene (p/m)	0.220	0.00208	"	0.208	ND	105	80-120			
Xylene (o)	0.110	0.00104	"	0.104	ND	106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0646*		*"*	*0.0625*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0613*		*"*	*0.0625*		*98.1*	*75-125*			

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7A3012 - General Preparation (GC)										
Matrix Spike Dup (P7A3012-MSD1)		**Source: 7A25001-01**		Prepared: 01/26/17 Analyzed: 01/27/17						
Benzene	0.147	0.00104	mg/kg dry	0.104	ND	141	80-120	18.4	20	QM-07
Toluene	0.140	0.00208	"	0.104	ND	134	80-120	24.6	20	QM-07
Ethylbenzene	0.142	0.00104	"	0.104	ND	137	80-120	15.6	20	QM-07
Xylene (p/m)	0.229	0.00208	"	0.208	ND	110	80-120	4.10	20	
Xylene (o)	0.123	0.00104	"	0.104	ND	118	80-120	10.8	20	
Surrogate: 1,4-Difluorobenzene	*0.0608*		*"*	*0.0625*		*97.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0681*		*"*	*0.0625*		*109*	*75-125*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7A2601 - * DEFAULT PREP *** **										
Blank (P7A2601-BLK1)				Prepared & Analyzed: 01/26/17						
% Moisture	ND	0.1	%							
Duplicate (P7A2601-DUP1)		**Source: 7A25002-19**		Prepared & Analyzed: 01/26/17						
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P7A2601-DUP2)		**Source: 7A25009-02**		Prepared & Analyzed: 01/26/17						
% Moisture	3.0	0.1	%		3.0			0.00	20	
Batch P7A2704 - * DEFAULT PREP *** **										
Blank (P7A2704-BLK1)				Prepared: 01/27/17 Analyzed: 01/30/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7A2704-BS1)				Prepared: 01/27/17 Analyzed: 01/30/17						
Chloride	429	1.00	mg/kg wet	400		107	80-120			
LCS Dup (P7A2704-BSD1)				Prepared: 01/27/17 Analyzed: 01/30/17						
Chloride	428	1.00	mg/kg wet	400		107	80-120	0.133	20	
Duplicate (P7A2704-DUP1)		**Source: 7A24011-01**		Prepared: 01/27/17 Analyzed: 01/30/17						
Chloride	15900	58.1	mg/kg dry		16900			6.19	20	
Duplicate (P7A2704-DUP2)		**Source: 7A25001-04**		Prepared: 01/27/17 Analyzed: 01/30/17						
Chloride	9.74	1.10	mg/kg dry		9.71			0.226	20	
Matrix Spike (P7A2704-MS1)		**Source: 7A24011-01**		Prepared: 01/27/17 Analyzed: 01/30/17						
Chloride	16200	58.1	mg/kg dry	2330	16900	NR	80-120			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7A3005 - TX 1005										
Blank (P7A3005-BLK1)				Prepared: 01/27/17 Analyzed: 01/28/17						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*86.0*		*"*	*100*		*86.0*	*70-130*			
Surrogate: o-Terphenyl	*45.1*		*"*	*50.0*		*90.2*	*70-130*			
LCS (P7A3005-BS1)				Prepared: 01/27/17 Analyzed: 01/28/17						
C6-C12	921	25.0	mg/kg wet	1000		92.1	75-125			
>C12-C28	807	25.0	"	1000		80.7	75-125			
Surrogate: 1-Chlorooctane	*97.0*		*"*	*100*		*97.0*	*70-130*			
Surrogate: o-Terphenyl	*47.1*		*"*	*50.0*		*94.3*	*70-130*			
LCS Dup (P7A3005-BSD1)				Prepared: 01/27/17 Analyzed: 01/28/17						
C6-C12	902	25.0	mg/kg wet	1000		90.2	75-125	2.17	20	
>C12-C28	834	25.0	"	1000		83.4	75-125	3.24	20	
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*50.6*		*"*	*50.0*		*101*	*70-130*			
Matrix Spike (P7A3005-MS1)	**Source: 7A25001-04**			Prepared: 01/27/17 Analyzed: 01/28/17						
C6-C12	913	27.5	mg/kg dry	1100	ND	83.1	75-125			
>C12-C28	912	27.5	"	1100	ND	83.0	75-125			
Surrogate: 1-Chlorooctane	*122*		*"*	*110*		*111*	*70-130*			
Surrogate: o-Terphenyl	*52.7*		*"*	*54.9*		*95.9*	*70-130*			
Batch P7A3006 - TX 1005										
Blank (P7A3006-BLK1)				Prepared: 01/27/17 Analyzed: 01/28/17						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*102*		*"*	*100*		*102*	*70-130*			
Surrogate: o-Terphenyl	*54.0*		*"*	*50.0*		*108*	*70-130*			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7A3006 - TX 1005										
LCS (P7A3006-BS1)				Prepared: 01/27/17 Analyzed: 01/28/17						
C6-C12	828	25.0	mg/kg wet	1000		82.8	75-125			
>C12-C28	816	25.0	"	1000		81.6	75-125			
Surrogate: 1-Chlorooctane	*107*		*"*	*100*		*107*	*70-130*			
Surrogate: o-Terphenyl	*56.3*		*"*	*50.0*		*113*	*70-130*			
LCS Dup (P7A3006-BSD1)				Prepared: 01/27/17 Analyzed: 01/28/17						
C6-C12	815	25.0	mg/kg wet	1000		81.5	75-125	1.62	20	
>C12-C28	820	25.0	"	1000		82.0	75-125	0.514	20	
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*54.2*		*"*	*50.0*		*108*	*70-130*			
Matrix Spike (P7A3006-MS1)	**Source: 7A24008-03**			Prepared: 01/27/17 Analyzed: 01/29/17						
C6-C12	966	27.8	mg/kg dry	1110	29.3	84.3	75-125			
>C12-C28	1010	27.8	"	1110	188	74.1	75-125			QM-05
Surrogate: 1-Chlorooctane	*136*		*"*	*111*		*122*	*70-130*			
Surrogate: o-Terphenyl	*71.9*		*"*	*55.6*		*129*	*70-130*			
Matrix Spike Dup (P7A3006-MSD1)	**Source: 7A24008-03**			Prepared: 01/27/17 Analyzed: 01/29/17						
C6-C12	894	27.8	mg/kg dry	1110	29.3	77.8	75-125	7.95	20	
>C12-C28	1000	27.8	"	1110	188	73.4	75-125	0.957	20	QM-05
Surrogate: 1-Chlorooctane	*134*		*"*	*111*		*120*	*70-130*			
Surrogate: o-Terphenyl	*70.8*		*"*	*55.6*		*128*	*70-130*			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 2/1/2017

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

12800 W. Hwy 80 E
Odessa, Texas 79765
Phone: 432-563-2200
Fax: 432-563-2213

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Tim McMinn
Company Name: Etech Environmental & Safety Solutions, Inc.
Company Address: PO Box 8469
City/State/Zip: Midland, Texas 79708
Telephone No: 432-563-2200 Fax No: 432-563-2213
Sampler Signature: Geoff Lekin
e-mail: ~~Tim@etechenv.com~~ Geoff@etechenv.com Brian@etechenv.com

Project Name: Jack B-30 #2 Tank Battery Lightening Strike
Project #: 498-7876-000
Project Loc: Jal, NM
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 17A25001

LAB # (lab use only)	FIELD CODE			Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 (8015M)	TOTAL: TPH: 418.1 (8015M)	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	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.	Chlorides				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Auger Hole 1	6-12"		1.23.17	1420	1	☒	☐	☐	☐	☐	☐	☐	☐	S	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☐	☒
2	Auger Hole 1	12-18"			1425		☒	☐	☐	☐	☐	☐	☐	☐		☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☐	☒
3	Auger Hole 2	18-24"			1505		☒	☐	☐	☐	☐	☐	☐	☐		☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☐	☒
4	Auger Hole 2	30-36"			1510		☒	☐	☐	☐	☐	☐	☐	☐		☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☐	☒
5	Auger Hole 3	0-6"			1540		☒	☐	☐	☐	☐	☐	☐	☐		☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☐	☒
6	Auger Hole 3	6-12"			1545		☒	☐	☐	☐	☐	☐	☐	☐		☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☐	☒
7	Auger Hole 4	0-6"			1610		☒	☐	☐	☐	☐	☐	☐	☐		☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☐	☒
8	Auger Hole 4	6-12"			1615		☒	☐	☐	☐	☐	☐	☐	☐		☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☐	☒
							☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
							☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Geoff Lekin	1/25/17		M Estrup	1/25/17	9:16
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: M Estrup	Date 1/25/17	Time 9:16	Received by ELOT:	Date 1-25-17	Time 9:16

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	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: 2.0 REF! °C

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning Strike

Project Number: 498-7876-000

Location: Jal, NM

Lab Order Number: 7B20006

NELAP/TCEQ # T104704156-13-3

Report Date: 03/08/17

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 1 6"	7B20006-01	Soil	02/17/17 13:15	02-20-2017 09:35
Test Trench 1 6.5'	7B20006-02	Soil	02/17/17 17:35	02-20-2017 09:35
Test Trench 1 8'	7B20006-03	Soil	02/17/17 17:50	02-20-2017 09:35
Bottom Hole 2 24"	7B20006-04	Soil	02/17/17 13:20	02-20-2017 09:35
Test Trench 2 8'	7B20006-05	Soil	02/17/17 16:55	02-20-2017 09:35
Test Trench 2 9'	7B20006-06	Soil	02/17/17 17:00	02-20-2017 09:35
Bottom Hole 3 18"	7B20006-07	Soil	02/17/17 13:25	02-20-2017 09:35
Test Trench 3 6'	7B20006-08	Soil	02/17/17 17:10	02-20-2017 09:35
Test Trench 3 8.5'	7B20006-09	Soil	02/17/17 17:20	02-20-2017 09:35
Bottom Hole 4 6"	7B20006-10	Soil	02/17/17 13:30	02-20-2017 09:35
Test Trench 4 5.5'	7B20006-11	Soil	02/17/17 17:25	02-20-2017 09:35
Test Trench 4 7.5'	7B20006-12	Soil	02/17/17 17:30	02-20-2017 09:35
Bottom Hole 5 12"	7B20006-13	Soil	02/17/17 10:55	02-20-2017 09:35
Test Trench 5 2'	7B20006-14	Soil	02/17/17 11:00	02-20-2017 09:35
Test Trench 5 3'	7B20006-15	Soil	02/17/17 11:05	02-20-2017 09:35
Test Trench 5 4'	7B20006-16	Soil	02/17/17 16:05	02-20-2017 09:35
Test Trench 5 5'	7B20006-17	Soil	02/17/17 16:10	02-20-2017 09:35
Test Trench 5 6'	7B20006-18	Soil	02/17/17 16:15	02-20-2017 09:35
Test Trench 5 7'	7B20006-19	Soil	02/17/17 16:20	02-20-2017 09:35
Test Trench 5 8'	7B20006-20	Soil	02/17/17 16:25	02-20-2017 09:35
Test Trench 5 9'	7B20006-21	Soil	02/17/17 16:30	02-20-2017 09:35
Bottom Hole 6 12"	7B20006-22	Soil	02/17/17 10:40	02-20-2017 09:35
Test Trench 6 2'	7B20006-23	Soil	02/17/17 10:45	02-20-2017 09:35
Test Trench 6 3'	7B20006-24	Soil	02/17/17 10:50	02-20-2017 09:35
Test Trench 6 4'	7B20006-25	Soil	02/17/17 15:30	02-20-2017 09:35
Test Trench 6 5'	7B20006-26	Soil	02/17/17 15:35	02-20-2017 09:35
Test Trench 6 6'	7B20006-27	Soil	02/17/17 15:40	02-20-2017 09:35
Test Trench 6 7'	7B20006-28	Soil	02/17/17 15:50	02-20-2017 09:35
Test Trench 6 8'	7B20006-29	Soil	02/17/17 16:00	02-20-2017 09:35

Bottom Hole 1 6"

7B20006-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00103	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*101 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**48.8**	1.03	mg/kg dry	1	P7B2318	02/23/17	02/24/17	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.4 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

Test Trench 1 6.5'

7B20006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**67.6**	1.04	mg/kg dry	1	P7B2318	02/23/17	02/24/17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

E Tech Environmental & Safety Solutions, Inc.	Project: Enervest JackB-30 #2 Tank Battery Lightning St	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 498-7876-000	
Odessa TX, 79765	Project Manager: Tim McMinn	

Test Trench 1 8'

7B20006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**155**	1.08	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Bottom Hole 2 24''

7B20006-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*105 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*113 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1130**	1.06	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.1 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*103 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 2 8'

7B20006-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**32.2**	1.10	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Odessa TX, 79765	Project Manager: Tim McMinn	

Test Trench 2 9'

7B20006-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**169**	1.12	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Bottom Hole 3 18''

7B20006-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*105 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*110 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1180**	1.04	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	**42.4**	26.0	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.2 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*102 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**42.4**	26.0	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

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Test Trench 3 6'

7B20006-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14.1**	1.09	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Odessa TX, 79765	Project Manager: Tim McMinn	

Test Trench 3 8.5'

7B20006-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**66.0**	1.09	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Bottom Hole 4 6"

7B20006-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.0220	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.0440	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	ND	0.0220	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	ND	0.0440	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	ND	0.0220	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*84.6 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.2 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**609**	1.10	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**31.4**	27.5	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	**179**	27.5	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*90.7 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**210**	27.5	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

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Test Trench 4 5.5'

7B20006-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**215**	1.06	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 4 7.5'

7B20006-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**34.2**	1.12	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Bottom Hole 5 12''

7B20006-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.509**	0.0230	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	**6.81**	0.0460	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	**7.41**	0.0230	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	**17.7**	0.0460	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	**6.92**	0.0230	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*102 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*92.1 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**391**	1.15	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**4330**	144	mg/kg dry	5	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	**5520**	144	mg/kg dry	5	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	**847**	144	mg/kg dry	5	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.6 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**10700**	144	mg/kg dry	5	[CALC]	02/21/17	02/21/17	calc	

Test Trench 5 2'

7B20006-14 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**395**	1.08	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P7C0205	02/28/17	03/01/17	TPH 8015M	
>C12-C28	**201**	26.9	mg/kg dry	1	P7C0205	02/28/17	03/01/17	TPH 8015M	
>C28-C35	**53.8**	26.9	mg/kg dry	1	P7C0205	02/28/17	03/01/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		*P7C0205*	*02/28/17*	*03/01/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*113 %*	*70-130*		*P7C0205*	*02/28/17*	*03/01/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**255**	26.9	mg/kg dry	1	[CALC]	02/28/17	03/01/17	calc	

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Test Trench 5 3'

7B20006-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**315**	1.08	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 5 4'

7B20006-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**412**	1.08	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 5 5'

7B20006-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**257**	1.14	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 5 6'

7B20006-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**192**	1.16	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**14.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 5 7'

7B20006-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**308**	1.14	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**12.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 5 8'

7B20006-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**418**	1.09	mg/kg dry	1	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 5 9'

7B20006-21 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**988**	5.38	mg/kg dry	5	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Bottom Hole 6 12''

7B20006-22 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0222	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Toluene	ND	0.0444	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Ethylbenzene	**0.120**	0.0222	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (p/m)	**0.214**	0.0444	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Xylene (o)	**0.0960**	0.0222	mg/kg dry	20	P7B2203	02/21/17	02/21/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.1 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*113 %*	*75-125*		*P7B2203*	*02/21/17*	*02/21/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1330**	5.56	mg/kg dry	5	P7B2403	02/24/17	02/27/17	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**102**	27.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C12-C28	**375**	27.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
>C28-C35	**51.9**	27.8	mg/kg dry	1	P7B2207	02/21/17	02/21/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.1 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P7B2207*	*02/21/17*	*02/21/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**529**	27.8	mg/kg dry	1	[CALC]	02/21/17	02/21/17	calc	

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Test Trench 6 2'

7B20006-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1900**	5.26	mg/kg dry	5	P7B2404	02/24/17	02/27/17	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 6 3'

7B20006-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**123**	1.05	mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 6 4'

7B20006-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**261**	1.08	mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

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Test Trench 6 5'

7B20006-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**209**	1.06	mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

E Tech Environmental & Safety Solutions, Inc.	Project: Enervest JackB-30 #2 Tank Battery Lightning St	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 498-7876-000	
Odessa TX, 79765	Project Manager: Tim McMinn	

Test Trench 6 6'

7B20006-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**326**	1.06	mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Test Trench 6 7'

7B20006-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**387**	1.12	mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

E Tech Environmental & Safety Solutions, Inc.	Project: Enervest JackB-30 #2 Tank Battery Lightning St	Fax: (432) 563-2213
13000 West County Road 100	Project Number: 498-7876-000	
Odessa TX, 79765	Project Manager: Tim McMinn	

Test Trench 6 8'

7B20006-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**410**	1.10	mg/kg dry	1	P7B2404	02/24/17	02/27/17	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P7B2102	02/21/17	02/21/17	% calculation	

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7B2203 - General Preparation (GC)										
Blank (P7B2203-BLK1)				Prepared & Analyzed: 02/21/17						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.0644*		*"*	*0.0600*		*107*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0646*		*"*	*0.0600*		*108*	*75-125*			
LCS (P7B2203-BS1)				Prepared & Analyzed: 02/21/17						
Benzene	0.0938	0.00100	mg/kg wet				70-130			
Toluene	0.0981	0.00200	"				70-130			
Ethylbenzene	0.114	0.00100	"				70-130			
Xylene (p/m)	0.210	0.00200	"				70-130			
Xylene (o)	0.104	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	*0.0652*		*"*	*0.0600*		*109*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0690*		*"*	*0.0600*		*115*	*75-125*			
LCS Dup (P7B2203-BSD1)				Prepared & Analyzed: 02/21/17						
Benzene	0.0918	0.00100	mg/kg wet				70-130		20	
Toluene	0.0969	0.00200	"				70-130		20	
Ethylbenzene	0.116	0.00100	"				70-130		20	
Xylene (p/m)	0.208	0.00200	"				70-130		20	
Xylene (o)	0.105	0.00100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	*0.0693*		*"*	*0.0600*		*116*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0655*		*"*	*0.0600*		*109*	*75-125*			
Matrix Spike (P7B2203-MS1)		**Source: 7B20006-01**		Prepared & Analyzed: 02/21/17						
Benzene	0.112	0.00103	mg/kg dry		ND		80-120			
Toluene	0.118	0.00206	"		ND		80-120			
Ethylbenzene	0.124	0.00103	"		ND		80-120			
Xylene (p/m)	0.221	0.00206	"		ND		80-120			
Xylene (o)	0.112	0.00103	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	*0.0678*		*"*	*0.0619*		*110*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0670*		*"*	*0.0619*		*108*	*75-125*			

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7B2203 - General Preparation (GC)										
Matrix Spike Dup (P7B2203-MSD1)		**Source: 7B20006-01**		Prepared & Analyzed: 02/21/17						
Benzene	0.111	0.00103	mg/kg dry		ND		80-120		20	
Toluene	0.115	0.00206	"		ND		80-120		20	
Ethylbenzene	0.122	0.00103	"		ND		80-120		20	
Xylene (p/m)	0.213	0.00206	"		ND		80-120		20	
Xylene (o)	0.106	0.00103	"		ND		80-120		20	
Surrogate: 1,4-Difluorobenzene	*0.0674*		*"*	*0.0619*		*109*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0709*		*"*	*0.0619*		*115*	*75-125*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7B2102 - * DEFAULT PREP *** **										
Blank (P7B2102-BLK1)				Prepared & Analyzed: 02/21/17						
% Moisture	ND	0.1	%							
Blank (P7B2102-BLK2)				Prepared & Analyzed: 02/21/17						
% Moisture	ND	0.1	%							
Duplicate (P7B2102-DUP1)		**Source: 7B20003-08**		Prepared & Analyzed: 02/21/17						
% Moisture	10.0	0.1	%		11.0			9.52	20	
Duplicate (P7B2102-DUP2)		**Source: 7B20004-11**		Prepared & Analyzed: 02/21/17						
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P7B2102-DUP3)		**Source: 7B20006-25**		Prepared & Analyzed: 02/21/17						
% Moisture	6.0	0.1	%		7.0			15.4	20	
Batch P7B2318 - * DEFAULT PREP *** **										
Blank (P7B2318-BLK1)				Prepared: 02/23/17 Analyzed: 02/24/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7B2318-BS1)				Prepared: 02/23/17 Analyzed: 02/24/17						
Chloride	433	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P7B2318-BSD1)				Prepared: 02/23/17 Analyzed: 02/24/17						
Chloride	434	1.00	mg/kg wet	400		108	80-120	0.178	20	
Duplicate (P7B2318-DUP1)		**Source: 7B20003-16**		Prepared: 02/23/17 Analyzed: 02/24/17						
Chloride	56.4	1.08	mg/kg dry		52.8			6.60	20	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7B2318 - * DEFAULT PREP *** **										
Duplicate (P7B2318-DUP2)	**Source: 7B20004-05**			Prepared: 02/23/17 Analyzed: 02/24/17						
Chloride	4250	27.2	mg/kg dry		4240			0.410	20	
Matrix Spike (P7B2318-MS1)	**Source: 7B20003-16**			Prepared: 02/23/17 Analyzed: 02/24/17						
Chloride	1090	1.08	mg/kg dry	1080	52.8	96.9	80-120			
Batch P7B2403 - * DEFAULT PREP *** **										
Blank (P7B2403-BLK1)				Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7B2403-BS1)				Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	431	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P7B2403-BSD1)				Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	439	1.00	mg/kg wet	400		110	80-120	1.81	20	
Duplicate (P7B2403-DUP1)	**Source: 7B20006-03**			Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	156	1.08	mg/kg dry		155			0.581	20	
Duplicate (P7B2403-DUP2)	**Source: 7B20006-13**			Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	392	1.15	mg/kg dry		391			0.176	20	
Matrix Spike (P7B2403-MS1)	**Source: 7B20006-03**			Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	1430	1.08	mg/kg dry	1080	155	118	80-120			
Batch P7B2404 - * DEFAULT PREP *** **										
Blank (P7B2404-BLK1)				Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	ND	1.00	mg/kg wet							

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7B2404 - * DEFAULT PREP *** **										
LCS (P7B2404-BS1)				Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	431	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P7B2404-BSD1)				Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	420	1.00	mg/kg wet	400		105	80-120	2.52	20	
Duplicate (P7B2404-DUP1)		**Source: 7B20006-23**		Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	1940	5.26	mg/kg dry		1900			2.14	20	
Duplicate (P7B2404-DUP2)		**Source: 7B21001-02**		Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	2290	10.8	mg/kg dry		2830			21.1	20	
Matrix Spike (P7B2404-MS1)		**Source: 7B20006-23**		Prepared: 02/24/17 Analyzed: 02/27/17						
Chloride	3060	5.26	mg/kg dry	1050	1900	110	80-120			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7B2207 - TX 1005										
Blank (P7B2207-BLK1)				Prepared & Analyzed: 02/21/17						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*130*		*"*	*100*		*130*	*70-130*			
Surrogate: o-Terphenyl	*74.7*		*"*	*50.0*		*149*	*70-130*			*S-GC*
LCS (P7B2207-BS1)				Prepared & Analyzed: 02/21/17						
C6-C12	1190	25.0	mg/kg wet	1000		119	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	*124*		*"*	*100*		*124*	*70-130*			
Surrogate: o-Terphenyl	*68.3*		*"*	*50.0*		*137*	*70-130*			*S-GC*
LCS Dup (P7B2207-BSD1)				Prepared & Analyzed: 02/21/17						
C6-C12	1180	25.0	mg/kg wet	1000		118	75-125	1.26	20	
>C12-C28	1080	25.0	"	1000		108	75-125	3.02	20	
Surrogate: 1-Chlorooctane	*120*		*"*	*100*		*120*	*70-130*			
Surrogate: o-Terphenyl	*65.9*		*"*	*50.0*		*132*	*70-130*			*S-GC*
Matrix Spike (P7B2207-MS1)	**Source: 7B20011-05**			Prepared: 02/21/17 Analyzed: 02/22/17						
C6-C12	1620	29.1	mg/kg dry	1160	19.2	138	75-125			QM-05
>C12-C28	2370	29.1	"	1160	308	177	75-125			QM-05
Surrogate: 1-Chlorooctane	*132*		*"*	*116*		*114*	*70-130*			
Surrogate: o-Terphenyl	*50.1*		*"*	*58.1*		*86.2*	*70-130*			
Matrix Spike Dup (P7B2207-MSD1)	**Source: 7B20011-05**			Prepared: 02/21/17 Analyzed: 02/22/17						
C6-C12	1660	29.1	mg/kg dry	1160	19.2	141	75-125	2.42	20	QM-05
>C12-C28	2380	29.1	"	1160	308	178	75-125	0.454	20	QM-05
Surrogate: 1-Chlorooctane	*133*		*"*	*116*		*114*	*70-130*			
Surrogate: o-Terphenyl	*62.7*		*"*	*58.1*		*108*	*70-130*			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7C0205 - TX 1005										
Blank (P7C0205-BLK1)				Prepared: 02/28/17 Analyzed: 03/01/17						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*89.1*		*"*	*100*		*89.1*	*70-130*			
Surrogate: o-Terphenyl	*50.7*		*"*	*50.0*		*101*	*70-130*			
LCS (P7C0205-BS1)				Prepared: 02/28/17 Analyzed: 03/01/17						
C6-C12	797	25.0	mg/kg wet	1000		79.7	75-125			
>C12-C28	1120	25.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*52.0*		*"*	*50.0*		*104*	*70-130*			
LCS Dup (P7C0205-BSD1)				Prepared: 02/28/17 Analyzed: 03/01/17						
C6-C12	792	25.0	mg/kg wet	1000		79.2	75-125	0.624	20	
>C12-C28	1130	25.0	"	1000		113	75-125	0.862	20	
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*48.1*		*"*	*50.0*		*96.3*	*70-130*			
Matrix Spike (P7C0205-MS1)	**Source: 7B20006-21**			Prepared: 02/28/17 Analyzed: 03/02/17						
C6-C12	907	26.9	mg/kg dry	1080	ND	84.4	75-125			
>C12-C28	1200	26.9	"	1080	ND	111	75-125			
Surrogate: 1-Chlorooctane	*127*		*"*	*108*		*119*	*70-130*			
Surrogate: o-Terphenyl	*61.5*		*"*	*53.8*		*114*	*70-130*			
Matrix Spike Dup (P7C0205-MSD1)	**Source: 7B20006-21**			Prepared: 02/28/17 Analyzed: 03/02/17						
C6-C12	928	26.9	mg/kg dry	1080	ND	86.3	75-125	2.21	20	
>C12-C28	1280	26.9	"	1080	ND	119	75-125	6.59	20	
Surrogate: 1-Chlorooctane	*126*		*"*	*108*		*117*	*70-130*			
Surrogate: o-Terphenyl	*69.0*		*"*	*53.8*		*128*	*70-130*			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:  Date: 3/8/2017

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 W. Hwy 80 E
Odessa, Texas 79765

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Tim McMinn
Company Name: Etech Environmental & Safety Solutions, Inc.
Company Address: PO Box 8469
City/State/Zip: Midland, Texas 79708
Telephone No: 432-563-2200 Fax No: 432-563-2213
Sampler Signature: Geoff Lehman

Project Name: Enervest Jack B-30 #2 Tank Battery Lightning Strike
Project #: 498-7876-000
Project Loc: Jal, NM
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES
e-mail: Geoff@etechenv.com Brian@etechenv.com

(lab use only) ORDER #: 7B20006

LAB # (lab use only)	FIELD CODE				Date Sampled	Time Sampled	No. of Containers	Preservation & # 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	Analyze For: TCLP: TOTAL: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	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.	Chlorides				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Bottom Hole 1	6"			2.17.17	1315	1	☒								S	☒						☒			☒					
2	Test Trench 1	6.5'				1735	1	☒																		☒					
3	Test Trench 1	8'				1750		☒																		☒					
4	Bottom Hole 2	24"				1320		☒									☒						☒			☒					
5	Test Trench 2	8'				1655		☒																		☒					
6	Test Trench 2	9'				1700		☒																		☒					
7	Bottom Hole 3	18"				1325		☒									☒						☒			☒					
8	Test Trench 3	6'				1710		☒																		☒					
9	Test Trench 3	8.5'				1720		☒																		☒					
10	Bottom Hole 4	6"				1330		☒									☒						☒			☒					

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Geoff Lehman			M Estrup	2/20/17	8:52
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
M Estrup	2/20/17	17:52		2-20-17	9:35

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	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. ?		N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: 3.0°C

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 W. Hwy 80 E
Odessa, Texas 79765

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Tim McMinn

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: PO Box 8469

City/State/Zip: Midland, Texas 79708

Telephone No: 432-563-2200 Fax No: 432-563-2213

Sampler Signature: [signature]

e-mail: Geff@etechenv.com
Brian@etechenv.com

Project Name: Ernest Jack B-30 #2 Tank Battery Lightning strike

Project #: 498-7876-000

Project Loc: Jal, NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 1702116

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservation & # 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	Analyze For: TCLP: TPH: 418.1 (8015M) 1005 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	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.	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	Test Trench 4 5.5'	2.17.17	1725	1	☒								S													☒		
12	Test Trench 4 7.5'		1730	1	☒																					☒		
13	Bottom Hole 5 12"		1055	1	☒											☒							☒			☒		
14	Test Trench 5 2'		1100	1	☒																					☒		
15	Test Trench 5 3'		1105	1	☒																					☒		
16	Test Trench 5 4'		1605	1	☒																					☒		
17	Test Trench 5 5'		1610	1	☒																					☒		
18	Test Trench 5 6'		1615	1	☒																					☒		
19	Test Trench 5 7'		1620	1	☒																					☒		
20	Test Trench 5 8'	↓	1625	↓	☒								↓													☒		

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]			[signature]	2/20/17	8:52
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: [signature]	Date 2/20/17	Time 8:52	Received by ELOT: [signature]	Date 2/20/17	Time 9:36

Laboratory Comments:

Sample Containers Intact?	Y (N)
VOCs Free of Headspace?	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 3.0 °C

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 W. Hwy 80 E
Odessa, Texas 79765

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: _____ **Project Name:** _____

Company Name: Etech Environmental & Safety Solutions, Inc. **Project #:** _____

Company Address: PO Box 8469 **Project Loc:** _____

City/State/Zip: Midland, Texas 79708 **PO #:** _____

Telephone No: 432-563-2200 Fax No: 432-563-2213 **Report Format:** ☐ Standard ☐ TRRP ☐ NPDES

Sampler Signature: _____ e-mail: _____

(lab use only) **ORDER #:** 1B20000

LAB # (lab use only)	FIELD CODE				Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 (8015M) 1005 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	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.	Chlorides				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
21	Test Trench 5	9'			2.17.17	1630	1	X								S										X					
22	Bottom Hole 6	12"				1040	1	X									X						X			X					
23	Test Trench 6	2'				1045		X																		X					
24	Test Trench 5	3'				1050		X																		X					
25	Test Trench 6	4'				1530		X																		X					
26	Test Trench 6	5'				1535		X																		X					
27	Test Trench 6	6'				1540		X																		X					
28	Test Trench 6	7'				1550		X																		X					
29	Test Trench 6	8'				1600		X																		X					

Special Instructions:

	Date	Time		Date	Time
Relinquished by:			Received by:	2/20/17	8:52
Relinquished by:			Received by:		
Relinquished by:	2/20/17	8:52	Received by ELOT:	2.20.17	9:36

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.0 °C

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Tim McMinn

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike

Project Number: 498-7876-000

Location: Jal NM

Lab Order Number: 7D12006

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-13-3

Report Date: 04/18/17

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Boring 1 10'	7D12006-01	Soil	04/11/17 10:30	04-12-2017 09:12
Boring 1 15'	7D12006-02	Soil	04/11/17 10:40	04-12-2017 09:12
Boring 1 20'	7D12006-03	Soil	04/11/17 10:50	04-12-2017 09:12

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Boring 1 10'

7D12006-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10.7**	1.06	mg/kg dry	1	P7D1302	04/13/17	04/17/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7D1701	04/17/17	04/17/17	% calculation	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Boring 1 15'

7D12006-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6.73**	1.09	mg/kg dry	1	P7D1302	04/13/17	04/17/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7D1701	04/17/17	04/17/17	% calculation	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

Boring 1 20'

7D12006-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8.37**	1.08	mg/kg dry	1	P7D1303	04/13/17	04/17/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7D1701	04/17/17	04/17/17	% calculation	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7D1302 - * DEFAULT PREP *** **										
Blank (P7D1302-BLK1)				Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7D1302-BS1)				Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	392	1.00	mg/kg wet	400		98.1	80-120			
LCS Dup (P7D1302-BSD1)				Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	392	1.00	mg/kg wet	400		98.1	80-120	0.0229	20	
Duplicate (P7D1302-DUP1)		**Source: 7D10008-58**		Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	305	1.05	mg/kg dry		305			0.114	20	
Duplicate (P7D1302-DUP2)		**Source: 7D10008-76**		Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	985	5.05	mg/kg dry		985			0.00512	20	
Matrix Spike (P7D1302-MS1)		**Source: 7D10008-58**		Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	1310	1.05	mg/kg dry	1050	305	95.8	80-120			
Batch P7D1303 - * DEFAULT PREP *** **										
Blank (P7D1303-BLK1)				Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7D1303-BS1)				Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	391	1.00	mg/kg wet	400		97.8	80-120			
LCS Dup (P7D1303-BSD1)				Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	404	1.00	mg/kg wet	400		101	80-120	3.28	20	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7D1303 - * DEFAULT PREP *** **										
Duplicate (P7D1303-DUP1)	**Source: 7D12007-01**			Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	2130	5.21	mg/kg dry		2360			10.6	20	
Duplicate (P7D1303-DUP2)	**Source: 7D12011-01**			Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	88.2	1.02	mg/kg dry		89.8			1.82	20	
Matrix Spike (P7D1303-MS1)	**Source: 7D12007-01**			Prepared: 04/13/17 Analyzed: 04/17/17						
Chloride	3170	5.21	mg/kg dry	1040	2360	77.8	80-120			QM-05
Batch P7D1701 - * DEFAULT PREP *** **										
Blank (P7D1701-BLK1)				Prepared & Analyzed: 04/17/17						
% Moisture	ND	0.1	%							
Duplicate (P7D1701-DUP1)	**Source: 7D10008-26**			Prepared & Analyzed: 04/17/17						
% Moisture	4.0	0.1	%		5.0			22.2	20	
Duplicate (P7D1701-DUP2)	**Source: 7D10008-53**			Prepared & Analyzed: 04/17/17						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P7D1701-DUP3)	**Source: 7D10008-82**			Prepared & Analyzed: 04/17/17						
% Moisture	14.0	0.1	%		15.0			6.90	20	
Duplicate (P7D1701-DUP4)	**Source: 7D11003-03**			Prepared & Analyzed: 04/17/17						
% Moisture	9.0	0.1	%		8.0			11.8	20	
Duplicate (P7D1701-DUP5)	**Source: 7D12006-01**			Prepared & Analyzed: 04/17/17						
% Moisture	6.0	0.1	%		6.0			0.00	20	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike
Project Number: 498-7876-000
Project Manager: Tim McMinn

Fax: (432) 563-2213

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7D1701 - * DEFAULT PREP *** **										
Duplicate (P7D1701-DUP6)		**Source: 7D12011-16**		Prepared & Analyzed: 04/17/17						
% Moisture	3.0	0.1	%		3.0			0.00	20	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Jack B-30 #2 Tank Battery Lightning Strike
Project Number: 498-7876-000
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Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:  Date: 4/18/2017

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

12800 W. Hwy 80 E
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Tim McMinn

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: PO Box 8469

City/State/Zip: Midland, Texas 79708

Telephone No: 432-563-2200 Fax No: 432-563-2213

Sampler Signature: Geoff Taylor

e-mail: Geoff@etechenv.com
Brian@etechenv.com

Project Name: Jack B-30 #2 Tank Battery Lightning Strike

Project #: 498-7826-000

Project Loc: Jal, NM

PO #:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 7012006

LAB # (lab use only)	FIELD CODE			Date Sampled	Time Sampled	No. of Containers	Preservation & # 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	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TOTAL: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	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.	Chlorides				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Boring 1	10'		4.11.17	1030	1	☒																		☒					☒
2	Boring 1	15'		↓	1040	1	☒																		☒					☒
3	Boring 1	20'		↓	1050	↓	☒																		☒					☒

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Geoff Taylor			M Estrada	4/12/17	8:40
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
M Estrada	4/12/17	8:40		4-12-17	9:12

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.0 °C

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Brian Ashburn
E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning Strike
Project Number: 498-7876-000
Location: Jal, NM

Lab Order Number: 7E11014

NELAP/TCEQ # T104704156-13-3

Report Date: 05/22/17

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sidewall 1 18"	7E11014-01	Soil	05/08/17 12:30	05-11-2017 10:10
Sidewall 2 18"	7E11014-02	Soil	05/08/17 12:40	05-11-2017 10:10
Sidewall 5 42"	7E11014-03	Soil	05/08/17 16:55	05-11-2017 10:10
Sidewall 6 42"	7E11014-04	Soil	05/09/17 15:00	05-11-2017 10:10
Sidewall 7 42"	7E11014-05	Soil	05/10/17 10:20	05-11-2017 10:10
Sidewall 8 42"	7E11014-06	Soil	05/10/17 10:25	05-11-2017 10:10
Sidewall 9 42"	7E11014-07	Soil	05/09/17 17:40	05-11-2017 10:10
Bottom Hole 3A 24"	7E11014-08	Soil	05/08/17 11:40	05-11-2017 10:10
Bottom Hole 6A 48"	7E11014-09	Soil	05/09/17 14:45	05-11-2017 10:10
Bottom Hole 7 48"	7E11014-10	Soil	05/09/17 17:25	05-11-2017 10:10

Sidewall 1 18"

7E11014-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*41.3 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*92.8 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.04	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.1 %*	*70-130*		*P7E1608*	*05/12/17*	*05/13/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.3 %*	*70-130*		*P7E1608*	*05/12/17*	*05/13/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/12/17	05/13/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

Sidewall 2 18"

7E11014-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00102	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*41.9 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*93.8 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.5 %*	*70-130*		*P7E1608*	*05/12/17*	*05/13/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*88.9 %*	*70-130*		*P7E1608*	*05/12/17*	*05/13/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	05/12/17	05/13/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

Sidewall 5 42"

7E11014-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.6 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*43.6 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**76.7**	1.06	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.1 %*	*70-130*		*P7E1508*	*05/12/17*	*05/14/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.7 %*	*70-130*		*P7E1508*	*05/12/17*	*05/14/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/12/17	05/14/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

Sidewall 6 42"

7E11014-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*45.1 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*96.6 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**293**	1.06	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*89.9 %*	*70-130*		*P7E1508*	*05/12/17*	*05/14/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*92.2 %*	*70-130*		*P7E1508*	*05/12/17*	*05/14/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/12/17	05/14/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

Sidewall 7 42"

7E11014-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*44.9 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**45.1**	1.08	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*91.3 %*	*70-130*		*P7E1508*	*05/12/17*	*05/14/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.6 %*	*70-130*		*P7E1508*	*05/12/17*	*05/14/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/12/17	05/14/17	calc	

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Sidewall 8 42"

7E11014-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*45.5 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**44.1**	1.06	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P7E1508	05/12/17	05/14/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.2 %*	*70-130*		*P7E1508*	*05/12/17*	*05/14/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*94.6 %*	*70-130*		*P7E1508*	*05/12/17*	*05/14/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/12/17	05/14/17	calc	

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Sidewall 9 42"

7E11014-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*94.8 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*42.6 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.10	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.8 %*	*70-130*		*P7E1608*	*05/12/17*	*05/13/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.4 %*	*70-130*		*P7E1608*	*05/12/17*	*05/13/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	05/12/17	05/13/17	calc	

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Bottom Hole 3A 24''

7E11014-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**135**	1.03	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	

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Odessa TX, 79765	Project Manager: Brian Ashburn	

Bottom Hole 6A 48''

7E11014-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**17.9**	1.08	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	

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Bottom Hole 7 48''

7E11014-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*43.6 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*96.6 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**36.7**	1.09	mg/kg dry	1	P7E1502	05/15/17	05/16/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7E1501	05/15/17	05/15/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P7E1608	05/12/17	05/13/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.6 %*	*70-130*		*P7E1608*	*05/12/17*	*05/13/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*93.5 %*	*70-130*		*P7E1608*	*05/12/17*	*05/13/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	05/12/17	05/13/17	calc	

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1609 - General Preparation (GC)										
Blank (P7E1609-BLK1)				Prepared & Analyzed: 05/15/17						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.0548*		*"*	*0.0600*		*91.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0264*		*"*	*0.0600*		*44.0*	*75-125*			*S-GC*
LCS (P7E1609-BS1)				Prepared & Analyzed: 05/15/17						
Benzene	0.114	0.00100	mg/kg wet	0.100		114	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130			
Xylene (p/m)	0.212	0.00200	"				70-130			
Xylene (o)	0.104	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	*0.0638*		*"*	*0.0600*		*106*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0264*		*"*	*0.0600*		*44.0*	*75-125*			*S-GC*
LCS Dup (P7E1609-BSD1)				Prepared & Analyzed: 05/15/17						
Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130	12.8	20	
Toluene	0.0948	0.00200	"	0.100		94.8	70-130	9.82	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130	4.28	20	
Xylene (p/m)	0.174	0.00200	"				70-130		20	
Xylene (o)	0.0901	0.00100	"				70-130		20	
Surrogate: 4-Bromofluorobenzene	*0.0214*		*"*	*0.0600*		*35.7*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0580*		*"*	*0.0600*		*96.6*	*75-125*			
Matrix Spike (P7E1609-MS1)	**Source: 7E15004-07**			Prepared: 05/15/17 Analyzed: 05/16/17						
Benzene	0.145	0.00104	mg/kg dry	0.104	ND	139	80-120			QM-05
Toluene	0.130	0.00208	"	0.104	ND	125	80-120			QM-05
Ethylbenzene	0.156	0.00104	"	0.104	ND	150	80-120			QM-05
Xylene (p/m)	0.239	0.00208	"		ND		80-120			
Xylene (o)	0.113	0.00104	"		ND		80-120			
Surrogate: 4-Bromofluorobenzene	*0.0236*		*"*	*0.0625*		*37.7*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0625*		*"*	*0.0625*		*100*	*75-125*			

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1609 - General Preparation (GC)										
Matrix Spike Dup (P7E1609-MSD1)		**Source: 7E15004-07**		Prepared: 05/15/17 Analyzed: 05/16/17						
Benzene	0.148	0.00104	mg/kg dry	0.104	ND	142	80-120	2.45	20	QM-05
Toluene	0.132	0.00208	"	0.104	ND	127	80-120	1.30	20	QM-05
Ethylbenzene	0.166	0.00104	"	0.104	ND	160	80-120	6.67	20	QM-05
Xylene (p/m)	0.257	0.00208	"		ND		80-120		20	
Xylene (o)	0.121	0.00104	"		ND		80-120		20	
Surrogate: 1,4-Difluorobenzene	*0.0650*		*"*	*0.0625*		*104*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0239*		*"*	*0.0625*		*38.3*	*75-125*			*S-GC*

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1501 - * DEFAULT PREP *** **										
Blank (P7E1501-BLK1)				Prepared & Analyzed: 05/15/17						
% Moisture	ND	0.1	%							
Duplicate (P7E1501-DUP1)		**Source: 7E11002-01**		Prepared & Analyzed: 05/15/17						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P7E1501-DUP2)		**Source: 7E11008-03**		Prepared & Analyzed: 05/15/17						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Batch P7E1502 - * DEFAULT PREP *** **										
Blank (P7E1502-BLK1)				Prepared: 05/15/17 Analyzed: 05/16/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7E1502-BS1)				Prepared: 05/15/17 Analyzed: 05/16/17						
Chloride	410	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P7E1502-BSD1)				Prepared: 05/15/17 Analyzed: 05/16/17						
Chloride	408	1.00	mg/kg wet	400		102	80-120	0.441	20	
Duplicate (P7E1502-DUP1)		**Source: 7E11006-01**		Prepared: 05/15/17 Analyzed: 05/16/17						
Chloride	12300	53.8	mg/kg dry		12300			0.542	20	
Duplicate (P7E1502-DUP2)		**Source: 7E11014-05**		Prepared: 05/15/17 Analyzed: 05/16/17						
Chloride	45.4	1.08	mg/kg dry		45.1			0.571	20	
Matrix Spike (P7E1502-MS1)		**Source: 7E11006-01**		Prepared: 05/15/17 Analyzed: 05/16/17						
Chloride	20300	53.8	mg/kg dry	5380	12300	148	80-120			QM-05

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1508 - TX 1005										
Blank (P7E1508-BLK1)				Prepared: 05/12/17 Analyzed: 05/13/17						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*89.2*		*"*	*100*		*89.2*	*70-130*			
Surrogate: o-Terphenyl	*45.5*		*"*	*50.0*		*91.1*	*70-130*			
LCS (P7E1508-BS1)				Prepared: 05/12/17 Analyzed: 05/13/17						
C6-C12	839	25.0	mg/kg wet	1000		83.9	75-125			
>C12-C28	883	25.0	"	1000		88.3	75-125			
Surrogate: 1-Chlorooctane	*95.2*		*"*	*100*		*95.2*	*70-130*			
Surrogate: o-Terphenyl	*44.6*		*"*	*50.0*		*89.3*	*70-130*			
LCS Dup (P7E1508-BSD1)				Prepared: 05/12/17 Analyzed: 05/13/17						
C6-C12	844	25.0	mg/kg wet	1000		84.4	75-125	0.497	20	
>C12-C28	853	25.0	"	1000		85.3	75-125	3.54	20	
Surrogate: 1-Chlorooctane	*93.2*		*"*	*100*		*93.2*	*70-130*			
Surrogate: o-Terphenyl	*42.8*		*"*	*50.0*		*85.7*	*70-130*			
Matrix Spike (P7E1508-MS1)	**Source: 7E11014-06**			Prepared: 05/12/17 Analyzed: 05/15/17						
C6-C12	505	26.6	mg/kg dry	1060	ND	47.4	75-125			QM-05
>C12-C28	492	26.6	"	1060	ND	46.3	75-125			QM-05
Surrogate: 1-Chlorooctane	*52.1*		*"*	*106*		*49.0*	*70-130*			*S-DUP*
Surrogate: o-Terphenyl	*23.7*		*"*	*53.2*		*44.6*	*70-130*			*S-DUP*
Matrix Spike Dup (P7E1508-MSD1)	**Source: 7E11014-06**			Prepared: 05/12/17 Analyzed: 05/15/17						
C6-C12	692	26.6	mg/kg dry	1060	ND	65.1	75-125	31.3	20	QM-05
>C12-C28	699	26.6	"	1060	ND	65.7	75-125	34.7	20	QM-05
Surrogate: 1-Chlorooctane	*75.0*		*"*	*106*		*70.5*	*70-130*			*S-DUP*
Surrogate: o-Terphenyl	*35.4*		*"*	*53.2*		*66.6*	*70-130*			

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13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1608 - TX 1005										
Blank (P7E1608-BLK1)				Prepared: 05/12/17 Analyzed: 05/13/17						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*92.3*		*"*	*100*		*92.3*	*70-130*			
Surrogate: o-Terphenyl	*46.6*		*"*	*50.0*		*93.2*	*70-130*			
LCS (P7E1608-BS1)				Prepared: 05/12/17 Analyzed: 05/13/17						
C6-C12	910	25.0	mg/kg wet	1000		91.0	75-125			
>C12-C28	919	25.0	"	1000		91.9	75-125			
Surrogate: 1-Chlorooctane	*98.7*		*"*	*100*		*98.7*	*70-130*			
Surrogate: o-Terphenyl	*46.5*		*"*	*50.0*		*92.9*	*70-130*			
LCS Dup (P7E1608-BSD1)				Prepared: 05/12/17 Analyzed: 05/13/17						
C6-C12	870	25.0	mg/kg wet	1000		87.0	75-125	4.53	20	
>C12-C28	896	25.0	"	1000		89.6	75-125	2.51	20	
Surrogate: 1-Chlorooctane	*95.5*		*"*	*100*		*95.5*	*70-130*			
Surrogate: o-Terphenyl	*45.1*		*"*	*50.0*		*90.3*	*70-130*			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
S-DUP	Duplicate analysis confirmed surrogate failure due to matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 5/22/2017

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12800 W. Hwy 80 E
Odessa, Texas 79765

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Brian Ashbourn
Project Name: Enervest Jack B-30 #2 Tank Battery Lightning St
Company Name: Etech Environmental & Safety Solutions, Inc.
Project #: 498-7876-000
Company Address: PO Box 8469
Project Loc: Jal, NM
City/State/Zip: Midland, Texas 79708
PO #:
Telephone No: 432-563-2200 Fax No: 432-563-2213
Report Format: ☒ Standard ☐ TRRP ☐ NPDES
Sampler Signature: Jeff Tekin
e-mail: brian@etechenv.com geff@etechenv.com

(lab use only) ORDER #: 7E11014

LAB # (lab use only)	FIELD CODE			Date Sampled	Time Sampled	No. of Containers	Preservation & # 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	Analyze For: TPH: 418.1 / 8015M / 1005 / 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	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.	Chlorides				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Sidewall	1	18"	5.8.17	1230		☒								S			☒							☒			☒					☒
2	Sidewall	2	18"	5.8.17	1240		☒											☒							☒			☒					☒
3	Sidewall	5	42"	5.8.17	1655		☒											☒							☒			☒					☒
4	Sidewall	6	42"	5.9.17	1500		☒											☒							☒			☒					☒
5	Sidewall	7	42"	5.10.17	1020		☒											☒							☒			☒					☒
6	Sidewall	8	42"	5.10.17	1025		☒											☒							☒			☒					☒
7	Sidewall	9	42"	5.9.17	1740		☒											☒							☒			☒					☒
8	Bottom Hole	3A	24"	5.8.17	1140		☒																					☒					☒
9	Bottom Hole	6A	48"	5.9.17	1445		☒																					☒					☒
10	Bottom Hole	7	48"	5.9.17	1725		☒											☒							☒		☒	☒					☒

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Jeff Tekin			M Estrup	5/11/17	8:55
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
M Estrup	5/11/17	8:55		5/11/17	1010

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 3.0 °C

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Brian Ashburn

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning Strike

Project Number: 498-7876-000

Location: Jal, NM

Lab Order Number: 7E15004

NELAP/TCEQ # T104704156-13-3

Report Date: 05/22/17

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 5A 36"	7E15004-01	Soil	05/12/17 08:55	05-15-2017 08:51
Bottom Hole 2A 36"	7E15004-02	Soil	05/12/17 12:30	05-15-2017 08:51
Sidewall 3 30"	7E15004-03	Soil	05/12/17 12:05	05-15-2017 08:51
Sidewall 4 30"	7E15004-04	Soil	05/12/17 09:00	05-15-2017 08:51
Sidewall 10 30"	7E15004-05	Soil	05/12/17 10:05	05-15-2017 08:51
Sidewall 11 30"	7E15004-06	Soil	05/12/17 13:15	05-15-2017 08:51
Sidewall 12 30"	7E15004-07	Soil	05/12/17 13:20	05-15-2017 08:51

Bottom Hole 5A 36''

7E15004-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P7E1609	05/15/17	05/15/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*46.9 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*101 %*	*75-125*		*P7E1609*	*05/15/17*	*05/15/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
% Moisture	**6.0**	0.1	%	1	P7E1702	05/17/17	05/17/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.3 %*	*70-130*		*P7E1705*	*05/15/17*	*05/16/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*101 %*	*70-130*		*P7E1705*	*05/15/17*	*05/16/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/15/17	05/16/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

Bottom Hole 2A 36''

7E15004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**397**	1.09	mg/kg dry	1	P7E1803	05/18/17	05/19/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7E1702	05/17/17	05/17/17	% calculation	

Sidewall 3 30"

7E15004-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*47.2 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*96.7 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.08	mg/kg dry	1	P7E1803	05/18/17	05/19/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7E1702	05/17/17	05/17/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*97.0 %*	*70-130*		*P7E1705*	*05/15/17*	*05/16/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.4 %*	*70-130*		*P7E1705*	*05/15/17*	*05/16/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/15/17	05/16/17	calc	

Sidewall 4 30"

7E15004-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Toluene	ND	0.00215	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.7 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*44.0 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.00**	1.08	mg/kg dry	1	P7E1803	05/18/17	05/19/17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P7E1702	05/17/17	05/17/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P7E1705	05/15/17	05/16/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*96.0 %*	*70-130*		*P7E1705*	*05/15/17*	*05/16/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*99.2 %*	*70-130*		*P7E1705*	*05/15/17*	*05/16/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/15/17	05/16/17	calc	

E Tech Environmental & Safety Solutions, Inc.
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Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
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Fax: (432) 563-2213

Sidewall 10 30''

7E15004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*98.4 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*47.6 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.05	mg/kg dry	1	P7E1803	05/18/17	05/19/17	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P7E1702	05/17/17	05/17/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
>C12-C28	**38.9**	26.3	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*95.2 %*	*70-130*		*P7E1704*	*05/16/17*	*05/17/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*98.0 %*	*70-130*		*P7E1704*	*05/16/17*	*05/17/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**38.9**	26.3	mg/kg dry	1	[CALC]	05/16/17	05/17/17	calc	

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Fax: (432) 563-2213

Sidewall 11 30''

7E15004-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*46.8 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.04	mg/kg dry	1	P7E1803	05/18/17	05/19/17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P7E1702	05/17/17	05/17/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*92.5 %*	*70-130*		*P7E1704*	*05/16/17*	*05/17/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.6 %*	*70-130*		*P7E1704*	*05/16/17*	*05/17/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/16/17	05/17/17	calc	

E Tech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa TX, 79765

Project: Enervest JackB-30 #2 Tank Battery Lightning St
Project Number: 498-7876-000
Project Manager: Brian Ashburn

Fax: (432) 563-2213

Sidewall 12 30''

7E15004-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Toluene	ND	0.00208	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P7E1609	05/15/17	05/16/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*47.4 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	*S-GC*
Surrogate: 1,4-Difluorobenzene		*100 %*	*75-125*		*P7E1609*	*05/15/17*	*05/16/17*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**454**	1.04	mg/kg dry	1	P7E1803	05/18/17	05/19/17	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P7E1702	05/17/17	05/17/17	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P7E1704	05/16/17	05/17/17	TPH 8015M	
Surrogate: 1-Chlorooctane		*94.6 %*	*70-130*		*P7E1704*	*05/16/17*	*05/17/17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*97.4 %*	*70-130*		*P7E1704*	*05/16/17*	*05/17/17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/16/17	05/17/17	calc	

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1609 - General Preparation (GC)										
Blank (P7E1609-BLK1)				Prepared & Analyzed: 05/15/17						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.0548*		*"*	*0.0600*		*91.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0264*		*"*	*0.0600*		*44.0*	*75-125*			*S-GC*
LCS (P7E1609-BS1)				Prepared & Analyzed: 05/15/17						
Benzene	0.114	0.00100	mg/kg wet	0.100		114	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130			
Xylene (p/m)	0.212	0.00200	"				70-130			
Xylene (o)	0.104	0.00100	"				70-130			
Surrogate: 1,4-Difluorobenzene	*0.0638*		*"*	*0.0600*		*106*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0264*		*"*	*0.0600*		*44.0*	*75-125*			*S-GC*
LCS Dup (P7E1609-BSD1)				Prepared & Analyzed: 05/15/17						
Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130	12.8	20	
Toluene	0.0948	0.00200	"	0.100		94.8	70-130	9.82	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	70-130	4.28	20	
Xylene (p/m)	0.174	0.00200	"				70-130		20	
Xylene (o)	0.0901	0.00100	"				70-130		20	
Surrogate: 1,4-Difluorobenzene	*0.0580*		*"*	*0.0600*		*96.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0214*		*"*	*0.0600*		*35.7*	*75-125*			*S-GC*
Matrix Spike (P7E1609-MS1)	**Source: 7E15004-07**			Prepared: 05/15/17 Analyzed: 05/16/17						
Benzene	0.145	0.00104	mg/kg dry	0.104	ND	139	80-120			QM-05
Toluene	0.130	0.00208	"	0.104	ND	125	80-120			QM-05
Ethylbenzene	0.156	0.00104	"	0.104	ND	150	80-120			QM-05
Xylene (p/m)	0.239	0.00208	"		ND		80-120			
Xylene (o)	0.113	0.00104	"		ND		80-120			
Surrogate: 1,4-Difluorobenzene	*0.0625*		*"*	*0.0625*		*100*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0236*		*"*	*0.0625*		*37.7*	*75-125*			*S-GC*

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1609 - General Preparation (GC)										
Matrix Spike Dup (P7E1609-MSD1)		**Source: 7E15004-07**		Prepared: 05/15/17 Analyzed: 05/16/17						
Benzene	0.148	0.00104	mg/kg dry	0.104	ND	142	80-120	2.45	20	QM-05
Toluene	0.132	0.00208	"	0.104	ND	127	80-120	1.30	20	QM-05
Ethylbenzene	0.166	0.00104	"	0.104	ND	160	80-120	6.67	20	QM-05
Xylene (p/m)	0.257	0.00208	"		ND		80-120		20	
Xylene (o)	0.121	0.00104	"		ND		80-120		20	
Surrogate: 4-Bromofluorobenzene	*0.0239*		*"*	*0.0625*		*38.3*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0650*		*"*	*0.0625*		*104*	*75-125*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1702 - * DEFAULT PREP *** **										
Blank (P7E1702-BLK1)				Prepared & Analyzed: 05/17/17						
% Moisture	ND	0.1	%							
Duplicate (P7E1702-DUP1)	**Source: 7E15005-03**			Prepared & Analyzed: 05/17/17						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Batch P7E1803 - * DEFAULT PREP *** **										
Blank (P7E1803-BLK1)				Prepared: 05/18/17 Analyzed: 05/19/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7E1803-BS1)				Prepared: 05/18/17 Analyzed: 05/19/17						
Chloride	414	1.00	mg/kg wet	400		103	80-120			
LCS Dup (P7E1803-BSD1)				Prepared: 05/18/17 Analyzed: 05/19/17						
Chloride	412	1.00	mg/kg wet	400		103	80-120	0.528	20	
Duplicate (P7E1803-DUP1)	**Source: 7E12019-10**			Prepared: 05/18/17 Analyzed: 05/19/17						
Chloride	109	1.03	mg/kg dry		111			2.21	20	
Duplicate (P7E1803-DUP2)	**Source: 7E15004-06**			Prepared: 05/18/17 Analyzed: 05/19/17						
Chloride	ND	1.04	mg/kg dry		ND				20	
Matrix Spike (P7E1803-MS1)	**Source: 7E12019-10**			Prepared: 05/18/17 Analyzed: 05/19/17						
Chloride	1210	1.03	mg/kg dry	1030	111	107	80-120			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1704 - TX 1005										
Blank (P7E1704-BLK1)				Prepared: 05/16/17 Analyzed: 05/17/17						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*97.0*		*"*	*100*		*97.0*	*70-130*			
Surrogate: o-Terphenyl	*51.0*		*"*	*50.0*		*102*	*70-130*			
LCS (P7E1704-BS1)				Prepared: 05/16/17 Analyzed: 05/17/17						
C6-C12	843	25.0	mg/kg wet	1000		84.3	75-125			
>C12-C28	839	25.0	"	1000		83.9	75-125			
Surrogate: 1-Chlorooctane	*98.3*		*"*	*100*		*98.3*	*70-130*			
Surrogate: o-Terphenyl	*47.4*		*"*	*50.0*		*94.7*	*70-130*			
LCS Dup (P7E1704-BSD1)				Prepared: 05/16/17 Analyzed: 05/17/17						
C6-C12	883	25.0	mg/kg wet	1000		88.3	75-125	4.70	20	
>C12-C28	862	25.0	"	1000		86.2	75-125	2.71	20	
Surrogate: 1-Chlorooctane	*100*		*"*	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*48.0*		*"*	*50.0*		*96.1*	*70-130*			
Matrix Spike (P7E1704-MS1)	**Source: 7E15004-05**			Prepared: 05/16/17 Analyzed: 05/17/17						
C6-C12	868	26.3	mg/kg dry	1050	16.9	80.9	75-125			
>C12-C28	860	26.3	"	1050	38.9	78.0	75-125			
Surrogate: 1-Chlorooctane	*102*		*"*	*105*		*96.8*	*70-130*			
Surrogate: o-Terphenyl	*52.0*		*"*	*52.6*		*98.9*	*70-130*			
Matrix Spike Dup (P7E1704-MSD1)	**Source: 7E15004-05**			Prepared: 05/16/17 Analyzed: 05/17/17						
C6-C12	865	26.3	mg/kg dry	1050	16.9	80.6	75-125	0.380	20	
>C12-C28	853	26.3	"	1050	38.9	77.4	75-125	0.880	20	
Surrogate: 1-Chlorooctane	*103*		*"*	*105*		*97.7*	*70-130*			
Surrogate: o-Terphenyl	*48.9*		*"*	*52.6*		*92.9*	*70-130*			

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7E1705 - TX 1005										
Blank (P7E1705-BLK1)				Prepared: 05/15/17 Analyzed: 05/16/17						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*91.5*		*"*	*100*		*91.5*	*70-130*			
Surrogate: o-Terphenyl	*47.3*		*"*	*50.0*		*94.5*	*70-130*			
LCS (P7E1705-BS1)				Prepared: 05/15/17 Analyzed: 05/16/17						
C6-C12	922	25.0	mg/kg wet	1000		92.2	75-125			
>C12-C28	936	25.0	"	1000		93.6	75-125			
Surrogate: 1-Chlorooctane	*100*		*"*	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*46.7*		*"*	*50.0*		*93.4*	*70-130*			
LCS Dup (P7E1705-BSD1)				Prepared: 05/15/17 Analyzed: 05/16/17						
C6-C12	904	25.0	mg/kg wet	1000		90.4	75-125	1.89	20	
>C12-C28	934	25.0	"	1000		93.4	75-125	0.173	20	
Surrogate: 1-Chlorooctane	*98.6*		*"*	*100*		*98.6*	*70-130*			
Surrogate: o-Terphenyl	*46.2*		*"*	*50.0*		*92.5*	*70-130*			
Matrix Spike (P7E1705-MS1)	**Source: 7E15004-04**			Prepared: 05/15/17 Analyzed: 05/16/17						
C6-C12	904	26.9	mg/kg dry	1080	13.5	82.8	75-125			
>C12-C28	882	26.9	"	1080	ND	82.0	75-125			
Surrogate: 1-Chlorooctane	*109*		*"*	*108*		*101*	*70-130*			
Surrogate: o-Terphenyl	*50.6*		*"*	*53.8*		*94.2*	*70-130*			
Matrix Spike Dup (P7E1705-MSD1)	**Source: 7E15004-04**			Prepared: 05/15/17 Analyzed: 05/17/17						
C6-C12	895	26.9	mg/kg dry	1080	13.5	82.0	75-125	0.945	20	
>C12-C28	892	26.9	"	1080	ND	82.9	75-125	1.12	20	
Surrogate: 1-Chlorooctane	*107*		*"*	*108*		*99.6*	*70-130*			
Surrogate: o-Terphenyl	*51.2*		*"*	*53.8*		*95.2*	*70-130*			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:  Date: 5/22/2017

Brent Barron, Laboratory Director/Technical Director

Etech Environmental & Safety Solutions, Inc.

12800 W. Hwy 80 E
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-2200
Fax: 432-563-2213

Project Manager: Brian Ashburn
Project Name: Enervest Jack B-30 #2 Tank Battery Lightning
Company Name: Etech Environmental & Safety Solutions, Inc.
Project #: 498-7876-000
Company Address: PO Box 8469
Project Loc: Jal, NM
City/State/Zip: Midland, Texas 79708
PO #:
Telephone No: 432-563-2200 Fax No: 432-563-2213
Report Format: ☒ Standard ☐ TRRP ☐ NPDES
Sampler Signature: Jacob Sabino
e-mail: brian@etechenv.com geoff@etechenv.com

(lab use only) ORDER #: 72/5004

LAB # (lab use only)	FIELD CODE			Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TOTAL: TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	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.	Chlorides				RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	Bottom Hole 5A 36"			5.12.17	0855		X									X							X			X					X
2	Bottom Hole 2A 36"			5.12.17	1230		X																			X					X
3	Sidewall 3 30"			5.12.17	1205		X									X							X			X					X
4	Sidewall 4 30"			5.12.17	0900		X									X							X			X					X
5	Sidewall 10 30"			5.12.17	1005		X									X							X			X					X
6	Side wall 11 30"			5.12.17	1315		X									X							X			X					X
7	Sidewall 12 30"			5.12.17	1320		X									X							X			X					X

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
Jacob Sabino			[signature]	5/15/17	8:22
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: [signature]	Date 5/15/17	Time 8:22	Received by ELOT: [signature]	Date 5/15/17	Time 8:52

Laboratory Comments:

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

Temperature Upon Receipt: 3.0 °C