Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	~~2RP-5092 &~~ 2RP-5111
Facility ID	3001545101
Application ID	pAB1835130278

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	16.25 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	~~2RP-5092 &~~ 2RP-5111
Facility ID	3001545101
Application ID	pAB1835130278

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature: Date: 1-4-2021

email: ABarnhill@chevron.com Telephone:432-940-8432

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	~~2RP-5092 &~~ 2RP-5111
Facility ID	3001545101
Application ID	pAB1835130278

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- [x] Detailed description of proposed remediation technique
- [x] Scaled sitemap with GPS coordinates showing delineation points
- [x] Estimated volume of material to be remediated
- [x] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [x] Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature: Date: 1-4-2021

email: ABarnhill@chevron.com Telephone: 432-940-8524

OCD Only

Received by: Date:

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	~~2RP-5092 &~~ 2RP-5111
Facility ID	3001545101
Application ID	pAB1835130278

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

[X] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

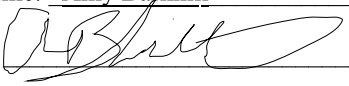
[X] Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

[X] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[X] Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature:  Date: 1-4-2021

email: ABarnhill@chevron.com Telephone: 432-940-8524

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix F

Photographs

2RP-5092 & 2RP-5111
Chevron USA, Inc., Hayhurst SO 17 20 Federal 001 Pad
December 14, 2020

Chevron HH SO 17 20 Federal 001, November 15, 2019

Diesel Spill Area Viewing East, November 15, 2019

2RP-5092 & 2RP-5111
Chevron USA, Inc., Hayhurst SO 17 20 Federal 001 Pad
December 14, 2020

Diesel Spill Area Viewing South, November 15, 2019

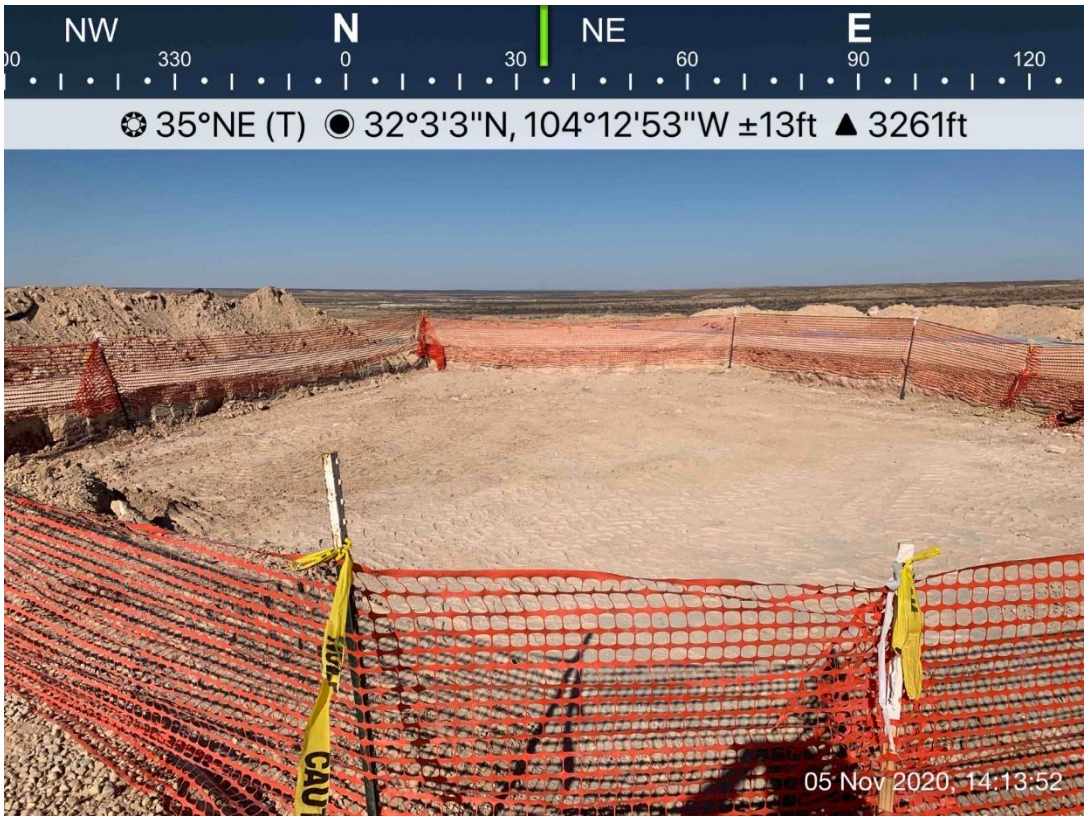
Oil Based Mud Spill Area Viewing Southwest, November 15, 2019

2RP-5092 & 2RP-5111
Chevron USA, Inc., Hayhurst SO 17 20 Federal 001 Pad
December 14, 2020

Oil Based Mud Spill Area Viewing Northwest, November 15, 2019

Oil Based Mud Spill Area Viewing Northeast, November 15, 2019

2RP-5092 & 2RP-5111
Chevron USA, Inc., Hayhurst SO 17 20 Federal 001 Pad
December 14, 2020



Diesel Spill Area Excavation Viewing Northeast, November 5, 2020

Diesel Spill Area Excavation Viewing Southwest, November 5, 2020

Additional Soil Removed from the Sidewall (C-6 and C-7) and Bottom C-13 from the Diesel Spill Area Excavation Viewing Southwest, November 20, 2020

Additional Soil Removed from The Sidewalls (N-SW and S-SW) and Bottom (C'-3, C'-6, C'-14, and C'-20) From The Oil Based Mud Spill Excavation viewing South, November 20, 2020

2RP-5092 & 2RP-5111
Chevron USA, Inc., Hayhurst SO 17 20 Federal 001 Pad
December 14, 2020

Additional Soil Removed from Sidewall (S-SW) and Bottom C'-20 from the Oil Based Mud Spill Excavation viewing Northwest, November 20, 2020

Additional Soil Removed from the Sidewall (N-SW) and Bottom C'-6 from the Oil Based Mud Spill Excavation viewing Southwest, December 7, 2020

2RP-5092 & 2RP-5111
Chevron USA, Inc., Hayhurst SO 17 20 Federal 001 Pad
December 14, 2020

Backfilled Oil Based Mud Excavation Viewing Northwest, December 11, 2020

Backfilled Oil Based Mud Excavation Viewing Southeast, December 11, 2020

2RP-5092 & 2RP-5111
Chevron USA, Inc., Hayhurst SO 17 20 Federal 001 Pad
December 14, 2020

Backfilled Diesel Based Excavation Viewing Southwest, December 11, 2020

Backfilled Diesel Based Excavation Viewing North, December 11, 2020

Appendix D

Waste Manifests

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name: Luis Medrano
Phone No.:

GENERATOR

NO. 210967

Operator No.:
Operators Name: Chevron
Address:
City, State, Zip:
Phone No.:

Permit/RRC No.:
Lease/Well Name & No.: HH 501720 Fed 1 1H
County:
API No.: 30-015-45160
Rig Name & No.:
AFE/PO No.:

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		Belly
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other: *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name: J+T 80173
Address:
Phone No.:

Driver's Name: Adan Morth
Print Name:
Phone No.:
Truck No.: 1173

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 SHIPMENT DATE | DRIVER'S SIGNATURE | DELIVERY DATE | DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 10:31AM OUT: 10:25PM

RECEIVING AREA Name/No.: D-1

Site Name/ Permit No.: Red Bluff Facility/ STF-065
Phone No.: 432-448-4239
Address: 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride: 8 Conductivity (mmhos/cm): pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Clarence Calderon | 11/10/20 | KLC | J. Calderon

NAME (PRINT) | DATE | TITLE | SIGNATURE

WHITE - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 210995

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: H1180 1720 tdc 11H
County
API No.: 3005 [illegible] 45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		Belt
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	✓	INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

*see attached

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name: J H T 80573
Address
Phone No.

Driver's Name: Carlos S.
Print Name
Phone No.
Truck No.: 174

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 | Carlos S. | 11-10-20 | Carlos S.
SHIPMENT DATE | DRIVER'S SIGNATURE | DELIVERY DATE | DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 12:39PM OUT:

RECEIVING AREA Name/No. 1-1

Site Name/Permit No.: Red Bluff Facility/ STF-065
Phone No.: 432-448-4239
Address: 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride: 8 Conductivity (mmhos/cm): pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Alice Calderon | 11/10/20 | RRC | J Calderon
NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 210991

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: HH501720 Fed 1H
County
API No.: 30-015-45700
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		BELLY
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

* see attached

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name: S HT
Address
Phone No.

Driver's Name: EFrain Castillo
Print Name
Phone No.
Truck No.: No. 115

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11 20 2020 SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 12:30PM OUT:

RECEIVING AREA Name/No. D-1

Site Name/ Permit No.: Red Bluff Facility/ STF-065
Address: 5053 US Highway 285, Orla, TX 79770
Phone No.: 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Manuel Caldera 11/10/20 Rec

NAME (PRINT) DATE TITLE SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 210992

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. WH 501720 Fed 11H
County
API No. 30-015-44004/45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		Belly
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	✓	INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

X see attached

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name JHT 8073
Address
Phone No.

Driver's Name Robert Cota
Print Name
Phone No.
Truck No. 1171

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11/10/20 SHIPMENT DATE | DRIVER'S SIGNATURE | 11/10/20 DELIVERY DATE | DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: 12:34PM OUT:

RECEIVING AREA
Name/No. 1

Site Name/ Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Monica Calderon | 11/10/20 | Rec | Calderon

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name ____
Phone No. ____

GENERATOR

NO. 210993

Operator No.		Permit/RRC No.	
Operators Name	Chevron.	Lease/Well Name & No.	H.H SO 17 20 fed #1H
Address		County	
		API No.	30 015 46100
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Bully
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms	✓	Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ____ *please select from Non-Exempt Waste List on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

X See attached
(PRINT) AUTHORIZED AGENTS SIGNATURE ____ DATE ____ SIGNATURE ____

TRANSPORTER

Transporter's Name	JH+ 8073	Driver's Name	[signature]
Address		Print Name	Greg Herrera
		Phone No.	
Phone No.		Truck No.	152

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 SHIPMENT DATE [signature] DRIVER'S SIGNATURE 11-10-20 DELIVERY DATE [signature] DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 12:30PM OUT: ____

DISPOSAL FACILITY

RECEIVING AREA
Name/No. D-1

Site Name/ Permit No. **Red Bluff Facility/ STF-065** Phone No. **432-448-4239**
Address **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) (YES) NO 8 If YES, was reading > 50 micro roentgens? (circle one) YES (NO)
Chemical Analysis Chloride (Mg/l) ____ Conductivity (mmhos/cm) ____ pH ____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): (ACCEPTED) DENIED If denied, why?

Venice Calderon 11/10/20 Rec [signature]
NAME (PRINT) DATE TITLE SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 210994

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. WH 30 1H 2J Fed 11H
County
API No. 30-015-44004 45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	Belly
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY BELLY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name JHT 8073
Address
Phone No.

Driver's Name
Print Name
Phone No.
Truck No. 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 SHIPMENT DATE | DRIVER'S SIGNATURE | 11-10-20 DELIVERY DATE | DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 12:37PM OUT:

RECEIVING AREA Name/No. D-1

Site Name/Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Mericel Calderon | 11/10/20 | Rec | J. Calderon

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Stetson Gibbs
Phone No.

GENERATOR

NO. 211126

Operator No.		Permit/RRC No.	
Operators Name	Chevron	Lease/Well Name & No.	HH SO 1720 Fed 001H
Address		County	
		API No.	30-015-45100
City, State, Zip		Rig Name & No.	Non-Drilling
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _____ *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 10 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name	JHT	Driver's Name	Eng Herrera
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE	DRIVER'S SIGNATURE	DELIVERY DATE	DRIVER'S SIGNATURE
11-19-20	Eng Herrera	11-19-20	Eng Herrera

TRUCK TIME STAMP IN: 12:54 PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. 1

Site Name/Permit No. Red Bluff Facility/ STF-065

Phone No. 432-448-4239

Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride _____ Conductivity (mmhos/cm) _____ pH _____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT)	DATE	TITLE	SIGNATURE
Wade Caldwell	11/19/20	Rec	Caldwell

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Luis Medrano
Phone No.

GENERATOR

NO. 211029

Operator No. CHEVRON
Operators Name
Address
City, State, Zip
Phone No.

Permit/RRC No. HHS
Lease/Well Name & No. HH 50 1720 Red 1 1H
County
API No. 36-015 45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms	1	Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name JHT 8073
Address
Phone No.

Driver's Name Adm Murillo
Print Name
Phone No.
Truck No. M73

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

10-16-20 | DRIVER'S SIGNATURE | DELIVERY DATE | DRIVER'S SIGNATURE

SHIPMENT DATE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 11:30AM OUT: 1:30PM

RECEIVING AREA Name/No. R-1

Site Name/ Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride 8 Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Bruce Caldwell | 11/10/20 | Rep | J. Caldwell

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Luis Medrano
Phone No.

GENERATOR

NO. 211025

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH S017 20 fed 1H
County
API No. 30-015 45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		BELLY
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	✓	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | Efren Costillo SIGNATURE

TRANSPORTER

Transporter's Name JHT
Address
Phone No.

Driver's Name Efren Costillo
Print Name
Phone No.
Truck No. 115

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11 10 2020 / Efren Costillo
SHIPMENT DATE / DRIVER'S SIGNATURE

11 10 2020 /
DELIVERY DATE / DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 2:15 PM OUT:

RECEIVING AREA Name/No. D-1

Site Name/Permit No. Red Bluff Facility/ STF-065
Phone No. 432-448-4239
Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

David Calderon | 11/10/20 | Rec | J. Calderon
NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name ______
Phone No. ______

GENERATOR

NO. 210996

Operator No.		Permit/RRC No.	
Operators Name	CHEVRON	Lease/Well Name & No.	HH SO 1720 Fed 11H
Address		County	
		API No.	30-015-45100
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids	✓	INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from *Non-Exempt Waste List* on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

See attached
(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name	JHT 8073	Driver's Name	Rafael Cola
Address		Print Name	
		Phone No.	710 436 6841
Phone No.		Truck No.	171

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11/10/20 [signature] 11/10/20 [signature]
SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 2:45PM OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. 1

Site Name/ Permit No.	**Red Bluff Facility/ STF-065**	Phone No.	**432-448-4239**
Address	**5053 US Highway 285, Orla, TX 79770**		

NORM READINGS TAKEN? (Circle One) YES NO (circled: YES) 8 — If YES, was reading > 50 micro roentgens? (circle one) YES NO (circled: NO)

Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Unice Calderon 11/10/20 [signature]
NAME (PRINT) DATE TITLE SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211042

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. H-H 501720 Fed H
County
API No. 30 015 45700
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids	✓	INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from Non-Exempt Waste List on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

X see attached
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name TH + 8073
Address
Phone No.

Driver's Name [signature]
Print Name Greg Herrera
Phone No.
Truck No. 157

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 SHIPMENT DATE — [signature] DRIVER'S SIGNATURE — 11-10-20 DELIVERY DATE — [signature] DRIVER'S SIGNATURE

TRUCK TIME STAMP	DISPOSAL FACILITY	RECEIVING AREA
IN: 2:49PM OUT:		Name/No. D-1

Site Name/ Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO 8
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Ulrica Calderon — 11/10/20 — ROC — [signature]
NAME (PRINT) — DATE — TITLE — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211041

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH SO 1320 Fed 11H
County
API No. -30 015 44900
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings	Washout Water (Non-Injectable)	B-1/2
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	
Water Based Cuttings	Produced Water (Non-Injectable)	
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	INTERNAL USE ONLY	
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Mark see attached

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name JHT 8073
Address
Phone No.

Driver's Name
Print Name
Phone No.
Truck No. 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 SHIPMENT DATE DRIVER'S SIGNATURE 11-10-20 DELIVERY DATE DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 2:50PM OUT:

RECEIVING AREA Name/No. D-1

Site Name/Permit No. **Red Bluff Facility/ STF-065**
Phone No. **432-448-4239**
Address **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Derick Calderon 11/10/20 ROC J Calderon

NAME (PRINT) DATE TITLE SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Stetson Tibbs
Phone No.

GENERATOR

NO. 211134

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH SO 17 20 Fed 5H
County
API No. 30-015-45102
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil	1			
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name JHT
Address
Phone No.

Driver's Name Fabian Contreras
Print Name
Phone No.
Truck No. 171

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-17-20 SHIPMENT DATE | DRIVER'S SIGNATURE | 11-19-20 DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 3:10 PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No.

Site Name/ Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Verrica Calderon | 11/19/20 | Rec | SIGNATURE

NAME (PRINT) | DATE | TITLE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name ______
Phone No. ______

GENERATOR

NO. 211046

Operator No.		Permit/RRC No.	
Operators Name	CHEVRON	Lease/Well Name & No.	HH SO 8/20 Federal 12H
Address		County	
		API No.	30-015-45101
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		Bolly
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from *Non-Exempt Waste List* on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE ______ DATE ______ SIGNATURE ______

TRANSPORTER

Transporter's Name	JHT.	Driver's Name	Osbaldo
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	174.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 Osbaldo S — SHIPMENT DATE / DRIVER'S SIGNATURE
11-10-20 Osbaldo — DELIVERY DATE / DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 3:15PM OUT: ______

DISPOSAL FACILITY

RECEIVING AREA Name/No. D-1

Site Name/Permit No. **Red Bluff Facility/ STF-065** Phone No. **432-448-4239**

Address **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES (circled) NO 8 If YES, was reading > 50 micro roentgens? (circle one) YES NO (circled)

Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH ______

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED (circled) DENIED If denied, why? ______

Venice Calderon — NAME (PRINT) 11/10/20 — DATE KEC — TITLE Calderon — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name: Luis Medina
Phone No.

GENERATOR

NO. 211034

Operator No.		Permit/RRC No.	
Operators Name	CHEVRON	Lease/Well Name & No.	HH 501720 Fed 1 11-1
Address		County	
		API No.	30-015-45100
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		Belle
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	✓	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ____ *please select from Non-Exempt Waste List on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

*see attached

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name	JHT 8073	Driver's Name	Alex Uvall
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	#173

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 [signature]
SHIPMENT DATE | DRIVER'S SIGNATURE | DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 4:06PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. 15-1

Site Name/ Permit No.	Red Bluff Facility/ STF-065	Phone No.	432-448-4239
Address	5053 US Highway 285, Orla, TX 79770		

NORM READINGS TAKEN? (Circle One) (YES) NO 0 If YES, was reading > 50 micro roentgens? (circle one) YES (NO)

Chemical Analysis Chloride (Mg/l) ____ Conductivity (mmhos/cm) ____ pH ____

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): (ACCEPTED) DENIED If denied, why?

Venice Calderon 11/10/20 Kec [signature]
NAME (PRINT) | DATE | TITLE | SIGNATURE

 White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211026

Operator No.		Permit/RRC No.	
Operators Name	cHebron	Lease/Well Name & No.	HH 5017 20 Fed 1 AHH
Address		County	
		API No.	30015 45 100
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		EBLLY
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms	✓	Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

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☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

X see attached

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name	JHT	Driver's Name	Efren castillo
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	115

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

Efren Castillo 11-10-20 Efren Castillo 11-10-20

SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP

IN: 4:17PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D-1

Site Name/ Permit No.	Red Bluff Facility/ STF-065	Phone No.	432-448-4239
Address	5053 US Highway 285, Orla, TX 79770		

NORM READINGS TAKEN? (Circle One) YES NO 0 If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Venice Calderon 11/10/20 Rec V. Calderon

NAME (PRINT) DATE TITLE SIGNATURE

 White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211044

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: HH SO B20 Fed 11-H
County
API No.: 30-015-45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Bolly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids	✓	INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ________ *please select from *Non-Exempt Waste List* on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

* see attached

(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name: JHT
Address
Phone No.

Driver's Name: [signature]
Print Name: Greg Hen...
Phone No.
Truck No.: 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 — SHIPMENT DATE; [signature] — DRIVER'S SIGNATURE; 11-10-20 — DELIVERY DATE; [signature] — DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 4:30PM OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. D-1

Site Name/Permit No.: **Red Bluff Facility/ STF-065**
Address: **5053 US Highway 285, Orla, TX 79770**
Phone No.: **432-448-4239**

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride ________
Conductivity (mmhos/cm) ________ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? ________

Venice Calderon — NAME (PRINT); 11/10/20 — DATE; Rec — TITLE; [signature] — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Name: Luis Medrano
Phone No.

GENERATOR

NO. 211043

Operator No.		Permit/RRC No.	
Operators Name	Chevron	Lease/Well Name & No.	H-H 50 1720/50 11-11
Address		County	
		API No.	30015 45 100
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms	✓	Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ________ *please select from Non-Exempt Waste List on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE ________ DATE ________ SIGNATURE ________

TRANSPORTER

Transporter's Name	JH+8073	Driver's Name	[signature]
Address		Print Name	Orus Herrera
		Phone No.	
Phone No.		Truck No.	157

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 SHIPMENT DATE — [signature] DRIVER'S SIGNATURE — 11-10-20 DELIVERY DATE — [signature] DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 4:34PM OUT:

RECEIVING AREA Name/No. D-1

Site Name/ Permit No.	Red Bluff Facility/ STF-065	Phone No.	432-448-4239
Address	5053 US Highway 285, Orla, TX 79770		

NORM READINGS TAKEN? (Circle One) YES NO — If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis Chloride (Mg/l) ________ Conductivity (mmhos/cm) ________ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Uriel Calderon NAME (PRINT) — 11/10/20 DATE — ROC TITLE — [signature] SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Name Luis A
Phone No.

GENERATOR

NO. 211033

Operator No.
Operators Name CHEVRON
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. H4561726 Fed
County
API No. 30-015-45
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified ar packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a p load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 C 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name JHT 8073
Address
Phone No.

Driver's Name
Print Name Adan Murill
Phone No.
Truck No. 1173

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 SHIPMENT DATE DRIVER'S SIGNATURE

DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 5:53PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D-1

Site Name/Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm)
pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Monica Caldwell 11/10/20 Rec M Caldwell

NAME (PRINT) DATE TITLE SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name: Luis Villareal
Phone No.

GENERATOR

NO. 211027

Operator No.		Permit/RRC No.	
Operators Name	Chebron	Lease/Well Name & No.	HH SO 17 20 Fed 1 H
Address		County	
		API No.	30-015 45 100
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		BELLY
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from Non-Exempt Waste List on back*

QUANTITY B - BARRELS Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name	JHT	Driver's Name	Efren Castillo
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	115

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11 10 2020	Efren Castillo	11-10-20	
SHIPMENT DATE	DRIVER'S SIGNATURE	DELIVERY DATE	DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 5:50PM OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. D-1

Site Name/ Permit No.	**Red Bluff Facility/ STF-065**	Phone No.	**432-448-4239**
Address	**5053 US Highway 285, Orla, TX 79770**		

NORM READINGS TAKEN? (Circle One) YES NO — If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Marcel Alcluon	11/10/20	Rec	J. Alcluon
NAME (PRINT)	DATE	TITLE	SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211040

Operator No.
Operators Name CHEVRON
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. WH SO 1720 FED 11H
County
API No. 30-015-45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		Belly
E&P Contaminated Soil	X			
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☒ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name JHT 8077
Address
Phone No.

Driver's Name Robert Pola
Print Name
Phone No. 770 476 6841
Truck No. 131

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11/10/20 SHIPMENT DATE | DRIVER'S SIGNATURE | 11/10/20 DELIVERY DATE | DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 10AM OUT:

RECEIVING AREA Name/No.

Site Name/ Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Michael Anchieta 11/10/20 PEC

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211054

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: HH SO 17 20 Fed 001 #1
County
API No.: 30015 45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	—	Truck Washout (exempt waste)		Belly
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name: JHT
Address
Phone No.

Driver's Name: [signature]
Print Name: Chef Herrera
Phone No.
Truck No.: 152

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE — DRIVER'S SIGNATURE — DELIVERY DATE — DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: 6:10 OUT:

RECEIVING AREA Name/No.: D1

Site Name/Permit No.: **Red Bluff Facility/ STF-065**
Phone No.: **432-448-4239**
Address: **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

NAME (PRINT): Maria Navarrete DATE: 11-10-20 TITLE: Rec SIGNATURE: MNavarrete

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211045

Operator No.		Permit/RRC No.	
Operators Name	Devon	Lease/Well Name & No.	Hilso (?) Fed 001 #C
Address		County	
		API No.	30 015 45100
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids	✓	INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other _______ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name	THT	Driver's Name	[signature]
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 [signature] 11-10-20 [signature]
SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: ______ OUT: ______

DISPOSAL FACILITY

RECEIVING AREA Name/No. D1

Site Name/ Permit No.	Red Bluff Facility/ STF-065	Phone No.	432-448-4239
Address	5053 US Highway 285, Orla, TX 79770		

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Maria Navarrete 11-10-20 ROC [signature]
NAME (PRINT) DATE TITLE SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Luis Medrano
Phone No.

GENERATOR

NO. 211035

Operator No.		Permit/RRC No.	
Operators Name	CHEVRON	Lease/Well Name & No.	HH SO 1720 Fed 11H
Address		County	
		API No.	30-015-45160
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		Belly
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms	✓	Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ **please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 70 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

X see attached
(PRINT) AUTHORIZED AGENTS SIGNATURE ______ DATE ______ SIGNATURE

TRANSPORTER

Transporter's Name	JHT 8073	Driver's Name	Rafael Cota
Address		Print Name	
		Phone No.	970 436-6841
Phone No.		Truck No.	171

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11/10/20 SHIPMENT DATE ______ [signature] DRIVER'S SIGNATURE ______ 11/10/20 DELIVERY DATE ______ [signature] DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: ______ OUT: ______

RECEIVING AREA
Name/No. D-1

Site Name/ Permit No.	**Red Bluff Facility/ STF-065**	Phone No.	**432-448-4239**
Address	**5053 US Highway 285, Orla, TX 79770**		

NORM READINGS TAKEN? (Circle One) YES NO — If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chloride Chemical Analysis (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Hercel Alderon ______ 11/10/20 ______ Rec ______ [signature]
NAME (PRINT) DATE TITLE SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211039

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH 50 1720 Fed 1H
County
API No. 30-015-45900
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	✓	INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

Belly Dump

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 70 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Erik Sainz
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name JHT
Address
Phone No.

Driver's Name Rafael Cela
Print Name
Phone No. 720 436 6841
Truck No. 171

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11/11/20 SHIPMENT DATE — DRIVER'S SIGNATURE — 11/11/20 DELIVERY DATE — DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 10:41 OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D1

Site Name/ Permit No. **Red Bluff Facility/ STF-065**
Address **5053 US Highway 285, Orla, TX 79770**
Phone No. **432-448-4239**

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Garcia — NAME (PRINT) — 11-11-20 DATE — Driver TITLE — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211053

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. H-H 501720 fed 11-H
County
API No. 3001345100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms	✓	Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Eric Sanz
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name JHT
Address
Phone No.

Driver's Name Greg Herrera
Print Name Greg Herrera
Phone No.
Truck No. 15-2

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-10-20 SHIPMENT DATE — DRIVER'S SIGNATURE — 11-11-20 DELIVERY DATE — DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 10:40 OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. N

Site Name/Permit No. Red Bluff Facility/ STF-065
Phone No. 432-448-4239
Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

George Lopez — NAME (PRINT) — 11-11-20 DATE — Driver TITLE — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST
(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211123

Operator No.		Permit/RRC No.	
Operators Name	Aaron	Lease/Well Name & No.	HH SO 1320 Fed 12H
Address		County	
		API No.	
City, State, Zip		Rig Name & No.	3U 015 H5100
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Bolly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids	✓	INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Erik Garza — (PRINT) AUTHORIZED AGENTS SIGNATURE
11-11-20 — DATE
SIGNATURE

TRANSPORTER

Transporter's Name	JHT	Driver's Name	Greg Hewer
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-11-20 — SHIPMENT DATE
DRIVER'S SIGNATURE
11-11-20 — DELIVERY DATE
DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: 10:50 am OUT:

RECEIVING AREA
Name/No. D1

Site Name/Permit No.: **Red Bluff Facility/ STF-065**
Phone No.: **432-448-4239**
Address: **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO (circled)
If YES, was reading > 50 micro roentgens? (circle one) YES NO (circled)

Chemical Analysis Chloride (Mg/l)
Conductivity (mmhos/cm)
pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Craft — NAME (PRINT)
11-11-20 — DATE
R Clerk — TITLE
SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name ______
Phone No. ______

GENERATOR

NO. 211136

Operator No.		Permit/RRC No.	
Operators Name	Chevron.	Lease/Well Name & No.	HH SO BCO Fed ...
Address		County	
		API No.	30-015-45101.
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		Bolly
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms	✓	Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from *Non-Exempt Waste List* on back

QUANTITY B - BARRELS ______ Y - YARDS 20 E - EACH ______

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Erik Saiz
(PRINT) AUTHORIZED AGENTS SIGNATURE ______ DATE ______ SIGNATURE ______

TRANSPORTER

Transporter's Name	JHT	Driver's Name	Osbaldo E.
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	174.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11.11.20 — SHIPMENT DATE; Osbaldo E — DRIVER'S SIGNATURE; 11.11.20 — DELIVERY DATE; Osbaldo E — DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 10:54 OUT: ______

DISPOSAL FACILITY

RECEIVING AREA
Name/No. D1

Site Name/ Permit No. **Red Bluff Facility/ STF-065**
Phone No. **432-448-4239**
Address **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO (circled)
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH ______

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? ______

Jorge Garcia — NAME (PRINT); 11-11-20 — DATE; Operator — TITLE; ______ — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Louis Medrano
Phone No.

GENERATOR

NO. 211031

Operator No.
Operators Name CHEVRON
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH 501720 Fed 1H
County
API No. 30-015-45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		Belly
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	✓	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Erik Sariz
(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name JHT 8073
Address
Phone No.

Driver's Name Adan Morillo
Print Name
Phone No.
Truck No. 473

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-11-20 | DRIVER'S SIGNATURE | DELIVERY DATE | DRIVER'S SIGNATURE
SHIPMENT DATE

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: 12:20 PM OUT:

RECEIVING AREA
Name/No. D1

Site Name/ Permit No. **Red Bluff Facility/ STF-065**
Address **5053 US Highway 285, Orla, TX 79770**
Phone No. **432-448-4239**

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Cisneros | 11-11-20 | Driver | SIGNATURE
NAME (PRINT) | DATE | TITLE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211036

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH SO 1920 Rd 1H
County
API No. 30-015-45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	✓	INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

Belly

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 70 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Erik Sniz
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name JHT
Address
Phone No.

Driver's Name Noel Cota
Print Name
Phone No.
Truck No. 171

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11/10/20 — SHIPMENT DATE — DRIVER'S SIGNATURE — 11/10/20 — DELIVERY DATE — DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 12:30 OUT:

RECEIVING AREA Name/No. D1

Site Name/Permit No. **Red Bluff Facility/ STF-065**
Phone No. **432-448-4239**
Address **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES (NO) If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Cano — NAME (PRINT) — 11/10/20 — DATE — Driver — TITLE — SIGNATURE

ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211057

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. H-H501720 fed 11-H
County
API No. 3001545100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		Belly
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	✓	INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Eric Sai
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name JHT
Address
Phone No.

Driver's Name
Print Name
Phone No.
Truck No. 152

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-11-20 — SHIPMENT DATE — DRIVER'S SIGNATURE
11-11-20 — DELIVERY DATE — DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 12:17 OUT:

RECEIVING AREA Name/No. 81

Site Name/Permit No. **Red Bluff Facility/ STF-065**
Phone No. **432-448-4239**
Address **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge (Jr.) — NAME (PRINT)
11-11-20 — DATE
Receiver — TITLE
SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211124

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH 603 Scharbauer 11-H
County
API No. 30-015-45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids	V	INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Eric Sitz
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name JHT
Address
Phone No.

Driver's Name Eric Herrera
Print Name
Phone No.
Truck No. 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-11-20 — SHIPMENT DATE — DRIVER'S SIGNATURE — 11-11-20 — DELIVERY DATE — DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: 17:52 OUT:

RECEIVING AREA
Name/No. 21

Site Name/ Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Eric Sitz — NAME (PRINT) — 11-11-20 — DATE — Terrence — TITLE — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211137

Operator No.
Operators Name: CHEVRON.
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: HHSO 1360 Federal
County
API No.: 30-015-45501
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		Drlg.
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other — *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Eric Sais — (PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name: JH.
Address
Phone No.

Driver's Name: Osbaldo E.
Print Name
Phone No.
Truck No.: 174.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11.11.20 — SHIPMENT DATE | Osbaldo E. — DRIVER'S SIGNATURE | 11.11.20 — DELIVERY DATE | Osbaldo E. — DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 1:05 PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No.: 21

Site Name/ Permit No.: **Red Bluff Facility/ STF-065**
Phone No.: **432-448-4239**
Address: **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Leyva — NAME (PRINT) | 11.11.20 — DATE | Driver — TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Luis Medina
Phone No.

GENERATOR

NO. 211032

Operator No.
Operators Name CHEVRON
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH 501-20 Fed 1 1H
County
API No. 3005 45106
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		Belly
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	✓	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

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☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Eric Sanz — (PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name JHT 8073
Address
Phone No.

Driver's Name Adan Murillo
Print Name
Phone No.
Truck No. M73

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-11-20 — SHIPMENT DATE — DRIVER'S SIGNATURE — DELIVERY DATE — DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: 2:08 OUT:

RECEIVING AREA
Name/No. DC

Site Name/Permit No. **Red Bluff Facility/ STF-065**
Phone No. **432-448-4239**
Address **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Cepeda — NAME (PRINT) — 11-11-20 — DATE — Receiver — TITLE — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211038

Operator No.
Operators Name: CHEVRON
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: HH SO 1720 Fed 11H
County
API No.: 30-015-45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		Belly
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms	1	INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Erik Smith
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name: JHT
Address
Phone No.

Driver's Name: Robert Cola
Print Name
Phone No.
Truck No.: 171

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11/4/20 — SHIPMENT DATE — DRIVER'S SIGNATURE — 11/4/20 — DELIVERY DATE — DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 2:24 OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D1

Site Name/Permit No.: Red Bluff Facility/ STF-065
Phone No.: 432-448-4239
Address: 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Lopez — NAME (PRINT) — 11/11/20 — DATE — Receiver — TITLE — SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211058

Operator No.
Operators Name: Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No.: HH 5301320 fed 11-H
County: Eddy
API No.: 30-015-45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)	
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)	Bell Dump
Water Based Cuttings		Produced Water (Non-Injectable)	
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)	
Tank Bottoms	✓	INTERNAL USE ONLY	
E&P Contaminated Soil		Truck Washout (exempt waste)	
Gas Plant Waste			

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Rob Kirk
(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name
Address
Phone No.

Driver's Name: Greg Herrera
Print Name: Greg Herrera
Phone No.
Truck No.: 15-2

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-11-20 SHIPMENT DATE | DRIVER'S SIGNATURE | 11-11-20 DELIVERY DATE | DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 7:30 OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No.: D1

Site Name/ Permit No.: **Red Bluff Facility/ STF-065**
Phone No.: **432-448-4239**
Address: **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jacqi Garcia | 11-11-20 | Receiver
NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name
Phone No.

GENERATOR

NO. 211055

Operator No.		Permit/RRC No.	
Operators Name	Chevron	Lease/Well Name & No.	H HSU 1320 Fed A A
Address		County	
		API No.	30 015 45100
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids	✓	Gathering Line Water/Waste (Non-Injectable)		bells
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil		Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from Non-Exempt Waste List on back

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Eric Sanz
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name	JMT	Driver's Name	Fresh Herrera
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-11-20 (SHIPMENT DATE) — [signature] (DRIVER'S SIGNATURE) — 11-11-20 (DELIVERY DATE) — [signature] (DRIVER'S SIGNATURE)

TRUCK TIME STAMP
IN: 2:56 OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. 21

Site Name/ Permit No. Red Bluff Facility/ STF-065 — Phone No. 432-448-4239

Address 5053 US Highway 285, Orla, TX 79770

NORM READINGS TAKEN? (Circle One) YES (NO) — If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chloride Chemical Analysis (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Garcia (NAME (PRINT)) — 11-11-20 (DATE) — Accept (TITLE) — [signature] (SIGNATURE)

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name: Luis Medina
Phone No.

GENERATOR

NO. 211030

Operator No.	Chevron	Permit/RRC No.	HHS
Operators Name	CHEVRON	Lease/Well Name & No.	HH SO 17 20 Fed 11 3H
Address		County	
		API No.	30015 2 45400
City, State, Zip		Rig Name & No.	
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly 11
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms	✓	Truck Washout (exempt waste)		
E&P Contaminated Soil				
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from Non-Exempt Waste List on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

Erik Saiz
(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

TRANSPORTER

Transporter's Name	HT 8873	Driver's Name	Adan [illegible]
Address		Print Name	
		Phone No.	
Phone No.		Truck No.	M73 / WHP 873

I hereby certify that the above named material(s) was/were picked-up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-11-2020 [signature]
SHIPMENT DATE — DRIVER'S SIGNATURE — DELIVERY DATE — DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: 6:33am OUT:

RECEIVING AREA
Name/No. 11

Site Name/Permit No. **Red Bluff Facility/ STF-065** Phone No. **432-448-4239**
Address **5053 US Highway 285, Orla, TX 79770**

NORM READINGS TAKEN? (Circle One) YES NO (circled) — If YES, was reading > 50 micro roentgens? (circle one) YES NO (circled)

Chemical Analysis Chloride (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

		BS&W (%)	
BS&W/BBLS Received			
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Jorge Garcia — 11-11-20 — Accepted — [signature]
NAME (PRINT) — DATE — TITLE — SIGNATURE

ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

CHEVRON
MCBU
Carlsbad, NM

NO #CAR- 2615 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE ___ OF ___ | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	3150 E. GREENE ST. CITY STATE ZIP CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	8. CONTAINERS Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a.					
b.					
c. — 45100					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

CHEVRON CARLSBAD — 24-HOUR EMERGENCY NO. 575-887-5676

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME | SIGNATURE | DATE

TRANSPORTERS

16. **TRANSPORTER (1)**	17. **TRANSPORTER (2)**
NAME	NAME
IN CASE OF EMERGENCY CONTACT:	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME _____	PRINTED/TYPED NAME _____
SIGNATURE _____ DATE _____	SIGNATURE _____ DATE _____

DISPOSAL FACILITY

	ADDRESS: R360 Environmental Solutions - Red Bluff 5053 US Highway 285	PHONE:
PERMIT NO.	20. COMMENTS Orla, TX 79770 432-448-4239	

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
Luis Caldera		11/14/20	10:51 AM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Stetson Gibbs
Phone No. 942-7090

GENERATOR

NO. 211127

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH50 1720 Federal 1H
County
API No. 30-015-45100
Rig Name & No.
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		Belly
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	✓	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 10 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

11-19-20 Kat

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

TRANSPORTER

Transporter's Name JHT
Address
Phone No.

Driver's Name Fabian Contreras
Print Name
Phone No.
Truck No. 174

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-17-20 Kat

SHIPMENT DATE | DRIVER'S SIGNATURE

11-19-20 Kat

DELIVERY DATE | DRIVER'S SIGNATURE

DISPOSAL FACILITY

TRUCK TIME STAMP IN: 12:57PM OUT:

RECEIVING AREA Name/No. D-1

Site Name/ Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chemical Analysis (Mg/l) Chloride
Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load/material has been (circle one): ACCEPTED DENIED If denied, why?

Monica Calderon | 11/19/20 | Roc | J. Calderon

NAME (PRINT) | DATE | TITLE | SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR

Version 1

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 2617 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE 3 OF 4 | 2. TRAILER NO. 158

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD	3150 E. GREENE ST.	11-19-20
PHONE NO. 575-887-5676	CITY STATE ZIP: CARLSBAD, NM 88220	6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated Dirt HH5017-20-fld 001 #5H	1	TT	20yrds		
b. AFE-300154510200001					
c. Cost Code-UCRE11200					
d.					

12. COMMENTS OR SPECIAL INSTRUCTIONS:	13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

CHEVRON CARLSBAD — 24-HOUR EMERGENCY NO. 575-887-5676

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME	SIGNATURE	DATE
Stetson Gibbs (575)942-7090	Stetson Gibbs	11-19-20

TRANSPORTERS

16. **TRANSPORTER (1)**	17. **TRANSPORTER (2)**
NAME Osbalo & Ram	NAME
IN CASE OF EMERGENCY CONTACT: Victor Leyva	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE: 432 237-1580	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME _____	PRINTED/TYPED NAME _____
SIGNATURE _____ DATE _____	SIGNATURE _____ DATE _____

DISPOSAL FACILITY

	ADDRESS:	PHONE:

PERMIT NO.	20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name Nelson Gibbs
Phone No.

GENERATOR

NO. 211135

Operator No.
Operators Name Chevron
Address
City, State, Zip
Phone No.

Permit/RRC No.
Lease/Well Name & No. HH 30 1720 Fed Com 41H
County
API No. 30-015-45155
Rig Name & No. Nabors
AFE/PO No.

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings		Washout Water (Non-Injectable)		Drill Cuttings
Water Based Muds		Completion Fluid/Flow back (Non-Injectable)		
Water Based Cuttings		Produced Water (Non-Injectable)		
Produced Formation Solids		Gathering Line Water/Waste (Non-Injectable)		
Tank Bottoms		INTERNAL USE ONLY		
E&P Contaminated Soil	✓	Truck Washout (exempt waste)		
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount
All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other *please select from **Non-Exempt Waste List** on back*

QUANTITY B - BARRELS 20 Y - YARDS E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

TRANSPORTER

Transporter's Name J47
Address
Phone No.

Driver's Name Juan Herrera
Print Name
Phone No.
Truck No. 162

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-19-20 SHIPMENT DATE — DRIVER'S SIGNATURE — 11-19-20 DELIVERY DATE — DRIVER'S SIGNATURE

TRUCK TIME STAMP IN: 2:50 PM OUT:

DISPOSAL FACILITY

RECEIVING AREA Name/No. D1

Site Name/Permit No. Red Bluff Facility/ STF-065
Address 5053 US Highway 285, Orla, TX 79770
Phone No. 432-448-4239

NORM READINGS TAKEN? (Circle One) YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO

Chemical Analysis (Mg/l) Chloride Conductivity (mmhos/cm) pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why?

Derrick Calhoun 11/19/20 Rep Calhoun

NAME (PRINT) DATE TITLE SIGNATURE

CHEVRON
MCBU

Carlsbad, NM

NO #CAR- 2619 **NON-HAZARDOUS WASTE MANIFEST** | 1. PAGE 5 OF 5 | 2. TRAILER NO.

GENERATOR

3. COMPANY NAME	4. ADDRESS	5. PICK-UP DATE
CHEVRON CARLSBAD PHONE NO. 575-887-5676	3150 E. GREENE ST. CITY STATE ZIP CARLSBAD, NM 88220	11-19-20 6.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No.	Type	9. TOTAL QUANTITY	10. UNIT WT/Vol.	11.
a. Contaminated Dirt	1	TT	20 yds		
b. HH SO17:20 Fed 001 #5 H					
c. API 3001545102000 1					
d. Cost Code UCR E 11200					

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

14. **IN CASE OF EMERGENCY OR SPILL, CONTACT**

CHEVRON CARLSBAD — 24-HOUR EMERGENCY NO. 575-887-5676

15. **GENERATOR'S CERTIFICATION:** Hereby declare that the contents of this consignment are fully and accurately described above.

PRINTED TYPED NAME	SIGNATURE	DATE
Stetson Gibbs (575) 942-7090	Stetson Gibbs	11 19 20

TRANSPORTERS

16. TRANSPORTER (1)	17. TRANSPORTER (2)
NAME	NAME
IN CASE OF EMERGENCY CONTACT: Victor	IN CASE OF EMERGENCY CONTACT:
EMERGENCY PHONE:	EMERGENCY PHONE:
18. TRANSPORTER (1): Acknowledgment of receipt of material	**19. TRANSPORTER** (2): Acknowledgment of receipt of material
PRINTED/TYPED NAME _____	PRINTED/TYPED NAME _____
SIGNATURE _____ DATE _____	SIGNATURE _____ DATE _____

DISPOSAL FACILITY

	ADDRESS: R360 Environmental Solutions - Red Bluff 5053 US Highway 285 Orla, TX 79770 432-448-4239	PHONE:
PERMIT NO.	20. COMMENTS	

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE	CELL NO.	DATE	TIME
		11/19/20	3:10 PM

Disposal Site: Please complete Disposal Facility section at bottom of form and mail copy of completed form to Chevron Carlsbad 3150 E. Greene St. Carlsbad, NM 88220

GENERATOR: COPY 1 TRANSPORTER: COPY 2 DISPOSAL SITE: COPY 3 & 4

R360 ENVIRONMENTAL SOLUTIONS

TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

(PLEASE PRINT) *REQUIRED INFORMATION*

Company Man Contact Information
Name ______
Phone No. ______

GENERATOR

NO. 212863

Operator No.		Permit/RRC No.	
Operators Name	Chevron	Lease/Well Name & No.	HHSO 17 20 Fed 001 COSH
Address		County	Eddy
		API No.	30-015-45102
City, State, Zip		Rig Name & No.	N-D
Phone No.		AFE/PO No.	

EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

		NON-INJECTABLE WATERS		OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Muds		Washout Water (Non-Injectable)		Belly
Oil Based Cuttings		Completion Fluid/Flow back (Non-Injectable)		
Water Based Muds		Produced Water (Non-Injectable)		
Water Based Cuttings		Gathering Line Water/Waste (Non-Injectable)		
Produced Formation Solids		INTERNAL USE ONLY		
Tank Bottoms		Truck Washout (exempt waste)		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

NON-EXEMPT E&P Waste/Service Identification and Amount

All non-exempt E&P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other ______ *please select from **Non-Exempt Waste List** on back

QUANTITY B - BARRELS Y - YARDS 20 E - EACH

I hereby certify that the above listed material(s), is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulation.

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

(PRINT) AUTHORIZED AGENTS SIGNATURE ______ DATE ______ SIGNATURE ______

TRANSPORTER

Transporter's Name	RTM	Driver's Name	Fabian Corrales
Address	JHT	Print Name	
		Phone No.	
Phone No.		Truck No.	174

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

11-30-20	[signature]	11-30-20	[signature]
SHIPMENT DATE	DRIVER'S SIGNATURE	DELIVERY DATE	DRIVER'S SIGNATURE

TRUCK TIME STAMP
IN: 3:17 PM OUT: ______

DISPOSAL FACILITY

RECEIVING AREA
Name/No. D1

Site Name/ Permit No.	Red Bluff Facility/ STF-065	Phone No.	432-448-4239
Address	5053 US Highway 285, Orla, TX 79770		

NORM READINGS TAKEN? (Circle One) YES NO (circled) If YES, was reading > 50 micro roentgens? (circle one) YES NO (circled)

Chloride Chemical Analysis (Mg/l) ______ Conductivity (mmhos/cm) ______ pH

TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLS Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? ______

Maria Navarrete	11-30-20	Loc	MNavarrete
NAME (PRINT)	DATE	TITLE	SIGNATURE

White - ORIGINAL Blue - TRANSPORTER Yellow - GENERATOR Version 1

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAB1834044196
District RP	2RP- 5092
Facility ID	3001545101
Application ID	pAB1834043507

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5092 & ~~2RP-5111~~
Facility ID	3001545101
Application ID	pAB1834043507

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature: Date: 1-4-2021

email: ABarnhill@chevron.com Telephone:432-940-8432

OCD Only

Received by: Cristina Eads Date: 01-04-2021

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5092 & ~~2RP-5111~~
Facility ID	3001545101
Application ID	pAB1834043507

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- [x] Detailed description of proposed remediation technique
- [x] Scaled sitemap with GPS coordinates showing delineation points
- [x] Estimated volume of material to be remediated
- [x] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [x] Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature: Date: 1-4-2021

email: ABarnhill@chevron.com Telephone: 432-940-8524

OCD Only

Received by: Date:

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Date:

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5092 & ~~2RP-5111~~
Facility ID	3001545101
Application ID	pAB1834043507

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

[X] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[X] Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

[X] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[X] Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amy Barnhill Title: Lead Environmental Specialist

Signature: Date: 1-4-2021

email: ABarnhill@chevron.com Telephone: 432-940-8524

OCD Only

Received by: Cristina Eads Date: 01-04-2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 03-04-2021

Printed Name: Cristina Eads Title: Environmental Specialist

2RP-5092 & 2RP-5111
Closure Report
HH SO 17 20 Federal 001 Pad
Diesel Fuel and Oil Based Drilling Mud
Eddy County, New Mexico

Latitude: N 32.05114°
Longitude: W 104.21480°

LAI Project No. 19-0180-06

December 11, 2020

Prepared for:
Chevron USA Inc.
6301 Deauville Blvd.
Midland, Texas 79706

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 205
Midland, Texas 79701

Mark J. Larson, P.G.
Certified Professional Geologist #10490

Robert Nelson
Sr. Geoscientist

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Table of Contents

Tables

Figures

Appendices

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this closure report on behalf of Chevron USA Inc. (Chevron) for submittal to the New Mexico Oil Conservation Division (OCD) District 2 for a diesel fuel and oil based mud release at the Hayhurst SO 17 20 Federal 001 #002H (Site) located in Unit N (SE/4, SW/4), Section 8, Township 26 South, Range 27 East in Eddy County New Mexico. The geodetic position is North 32.05114° and West -104.21480°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The diesel fuel release was discovered on November 9, 2018. The spill occurred when the fuel valves to the cold start generator were left in the open position releasing approximately 6.86 barrels (bbls) of diesel fuel. No liquid was recovered. The initial C-141 was submitted to OCD District 2 on November 20, 2018 and assigned a remediation permit number 2RP-5092. The oil-based mud release occurred on December 7, 2018, when the dryer shaker tank overflowed to the secondary containment releasing approximately 48.83 bbls of fluid. Approximately 48.83 bbls were recovered by a vacuum truck from the secondary containment. Immediate notice was given by Josepha DeLeon to Maria Pruett via voicemail and followed up with an email notification to Maria Pruett and Mike Bratcher on December 10, 2018 at 10:33 AM. The initial C-141 was submitted on December 13, 2018 and assigned a remediation permit number of 2RP-5111. An extension for spill characterization was requested due to high activity on the pad through December 31, 2019. Victoria Venegas (OCD) approved the extension on April 22, 2019. Appendix A presents the Chevron spill calculation for 2RP-5111. Appendix B presents regulatory communications.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,254 feet above mean sea level (msl).
- The surface topography decreases to the southeast.
- There are no surface water features within 1,000 feet of the Site.
- Karst Data provided by the USGS describes the Site as “High Risk” potential.
- The soils are designated as “Reeves-Gypsum land complex, 0 to 3 percent slopes”, consisting of 0 to 8 inches of loam, underlain by 8 to 32 inches of a clay loam, and 32 to 60 inches of gypsiferous material.
- The geology consists of the Salado Formation (Upper Permian)- containing evaporate sequences, predominantly halite.
- Groundwater was reported at approximately 16.25 feet below ground surface (bgs) from a well located approximately 0.58 miles northwest of the Site and measurement in 1992 (USGS).

Appendix C presents the Karst Risk Potential map

1.3 Remediation Standards

The following remediation standards are based on closure criteria for soils impacted by a release as presented in Table 1 of 19.15.29 NMAC:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg

- TPH 100 mg/Kg
- Chloride 600 mg/Kg

Further, 19.15.29.13 NMAC (Restoration, Reclamation and Re-Vegetation) requires the operator to restore the impacted surface area that existed prior to the release or their final land use.

2.0 DELINEATION

On November 15, 2019, LAI personnel used a stainless-steel hand auger to collect surface soil samples from twelve (12) locations inside of the spill areas (S-1 through S-6, S-8 and S-9) and outside of the spill areas (SP-7, S-10 through S-12) to vertically and horizontally delineate the release. The samples were collected to from 0 to 0.5 foot below ground surface (bgs). The soil samples were delivered under chain of custody and preservation to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas. The laboratory analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Benzene and BTEX were reported below the remediation standards of 10 milligrams per kilogram (mg/Kg) and 50 mg/Kg, respectively, in all samples. TPH was reported above the remediation standard of 100 mg/Kg in the following surface samples (0 to 0.5 feet bgs):

S-2 (5,840 mg/Kg)
S-3 (485 mg/Kg)
S-4 (1,160 mg/Kg)
S-5 (1,920 mg/Kg)
S-6 (1,040 mg/Kg)
S-8 (5,280 mg/Kg)
S-9 (5,610 mg/Kg
S-10 (3,420 mg/Kg)
S-11 (5,350 mg/Kg)
S-12 (148 mg/Kg).

Chloride was reported above the remediation standard of 600 mg/Kg in the following surface samples:

S-1 (1,580 mg/Kg)
S-2 (2,320 mg/Kg)
S-3 (4,060 mg/Kg)
S-4 (1,720 mg/Kg)
S-5 (1,770 mg/Kg)
S-6 (1,920 mg/Kg)
S-8 (3,960 mg/Kg
S-9 (909 mg/Kg)
S-10 (3,260 mg/Kg)
S-12 (1,910 mg/Kg).

On December 19, 2019, LAI personnel used direct push technology (DPT) to complete vertical delineation of the release. During this sampling event, samples were collected at two (2) additional locations (S-13 and S-14) north and west of the release to complete horizontal delineation. Soil samples were collected between three (3) and six (6) feet bgs depending on subsurface conditions. The samples were delivered under chain of custody and preservation to Xenco Laboratories in Midland, Texas, and were analyzed for BTEX, TPH, including gasoline range organics (C6-C12), diesel range organics (>C12-C28) and oil range organics (>C28-C35), and chloride by EPA SW-846 Methods 8021B and 8015M, and M300, respectively. Benzene, BTEX, TPH, and chloride were delineated below the remediation standards of 10 mg/Kg, 50 mg/Kg, 100 mg/Kg, and 600 mg/Kg, respectively, in all sample locations. Table 1 presents the soil sample

analytical data summary. Figure 2 presents an aerial map showing the soil sample locations. Appendix D presents the laboratory reports.

3.0 REMEDIATION

On November 3, 2020, P2 Construction, Inc. (P2) under supervision from LAI personnel utilized a backhoe to excavate soil from the diesel spill area encompassing sample locations S-9 through S-12 and measuring approximately 2,355 square feet. Soil was excavated to approximately two (2) feet bgs. Contaminated soil was stockpiled on a liner adjacent to the excavation prior to being hauled to the R360 Red Bluff disposal facility located approximately 13 miles northwest of Orla, Texas. On November 5, 2020, LAI personnel collected sixteen (16) confirmation soil samples from the bottom and sidewalls of the excavation. The soil samples were delivered under chain of custody and preservation to Xenco Laboratories (Xenco) in Carlsbad, New Mexico. The laboratory analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, and 300E, respectively. All confirmation soil samples reported benzene and BTEX below the OCD remediation levels. Chloride and/or TPH were reported above OCD remediation levels in the following confirmation samples:

Sample ID	Location	Depth (Feet)	TPH (mg/Kg)	Chloride (mg/Kg)
C-6	Sidewall	0 – 2	--	815
C-7	Sidewall	0 – 2	--	659
C-13	Bottom	2	1,280	610

On November 9, 2020, P2 excavated approximately two (2) feet of soil from the sidewalls at C-6 and C-7 and about one (1) foot below the bottom of the excavation at C-13. Laboratory analysis of composite soil samples reported benzene, BTEX, TPH, and chloride below the OCD remediation levels.

On November 5, 2020, P2 excavated soil from the oil-based mud spill area encompassing sample locations S-1 through S-6 and measuring approximately 6,891 square feet. Soil as excavated to a depth of approximately two (2) feet bgs. Contaminated soil was initially stockpiled within the excavation and later transported to the R360 Red Bluff disposal facility. On November 11, 2020, LAI personnel collected four (4) sidewalls composite samples and twenty (20) bottom samples from the excavation. All confirmation soil samples reported benzene and BTEX below the OCD remediation levels. Chloride and/or TPH were reported above OCD remediation levels in the following confirmation samples.

Sample ID	Location	Depth (Feet)	TPH (mg/Kg)	Chloride (mg/Kg)
N-SW	Sidewall	0 – 2	105	--
S-SW	Sidewall	0 – 2	--	755
C'-3	Bottom	2	--	822
C'-6	Bottom	2	1,410	2,110
C'-14	Bottom	2	113	--
C'-20	Bottom	2	676	--

On November 19, 2020, P2 excavated approximately one (1) foot of soil from the N-SW and S-SW sidewalls and one (1) foot of soil from the bottom encompassing sample locations C'3, C'-6, C'-14, and C'-20. Approximately 100 hundred cubic yards of contaminated soil was removed and hauled to the R360 Red Bluff disposal facility. Laboratory reported TPH above the OCD remediation standard (100 mg/Kg) in the N-SW sidewall sample (358 mg/Kg) and bottom sample at C'-6 (144 mg/Kg).

On November 30, 2020, P2 excavated approximately two (2) feet of soil from the sidewall at N-SW and one foot from the bottom of the excavation at C'-6. Approximately 20 cubic yards of impacted material was removed and hauled to the R360 Red Bluff disposal facility. Subsequent confirmation soil samples reported TPH below the OCD remediation levels. Appendix E presents the waste manifests.

LAI personnel collected four (4) composite samples of clean caliche from a nearby State of New Mexico borrow pit. Benzene, BTEX, and TPH were below the analytical method reporting limit and chloride was less than 600 mg/Kg in the backfill composite samples. On December 7, 2020, the excavation was backfilled to ground surface with clean caliche. Table 2 presents the confirmation soil analytical data summary. Figure 3 presents the excavations and confirmation sample locations. Appendix F presents photographs.

4.0 CLOSURE REQUEST

Chevron USA requests no further action.

Tables

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, HH SO 17 20 Fed 001
Eddy County, New Mexico
North 32.05114 West 104.21480

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-1	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<27.2	48.2	<27.2	48.2	**1,580**
	5	12/19/2019	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	223
S-2	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	195	5,580	59	**5,840**	**2,320**
	5	12/19/2019	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	273
S-3	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<26.3	422	62.5	**485**	**4,060**
	4	12/19/2019	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	223
S-4	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<30.9	1,050	111	**1,160**	**1,720**
	3	12/19/2019	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	262
S-5	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<26.9	1,740	181	**1,920**	**1,770**
	5	12/19/2019	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	121
S-6	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<27.8	910	132	**1,040**	**1,920**
	5	12/19/2019	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	126
S-7	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<27.8	<27.8	<27.8	<27.8	28.9
	0.5	12/19/2019	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	15.9
	1	12/19/2019	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	63.9
S-8	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<26.6	4,880	406	**5,280**	**3,960**
	5	12/19/2019	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	177
	6	12/19/2019	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	56.4

Table 1
Delineation Soil Sample Analytical Data Summary
Chevron USA, HH SO 17 20 Fed 001
Eddy County, New Mexico
North 32.05114 West 104.21480

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation Level:				**10**	**50**				**100**	**600**
S-9	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<27.8	5,170	440	**5,610**	**909**
	5	12/19/2019	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	192
S-10	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<25.5	3,170	253	**3,420**	**3,260**
	5	12/19/2019	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	95.9
	6	12/19/2019	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	5.89
S-11	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	40.4	5,180	125	**5,350**	247
	5	12/19/2019	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	46.4
S-12	0 - 0.5	11/15/2019	In-Situ	<0.00100	<0.00600	<26.0	148	<26.0	**148**	**1,910**
	5	12/19/2019	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	103
	6	12/19/2019	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	52.0
S-13	0.5	12/19/2019	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<4.95
	1	12/19/2019	In-Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	99.2
S-14	0.5	12/19/2019	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	38.0
	1	12/19/2019	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	32.2

Notes: Analysis performed by Permian Basin Environmental Laboratory and Xenco Laboratories by EPA SW-846 Methods 8021B (BTEX), 8015M (TPH), and M300 (chloride)
Depth in feet below ground surface (bgs)
mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)
<: denotes concentration less than analytical method reporting limit
Bold and Highlighted exceeds OCD remediation levels

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, HH SO 17 20 Fed 001
Eddy County, New Mexico
North 32.05114 West -104.21480

Sample ID	Location	Depth (feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
RAL:					**10**	**50**				**100**	**600**
Diesel Spill Area Excavation											
C-1	Sidewall	0 - 2	11/5/2020	In-Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	146
C-2	Sidewall	0 - 2	11/5/2020	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	51.8
C-3	Sidewall	0 - 2	11/5/2020	In-Situ	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	120
C-4	Sidewall	0 - 2	11/5/2020	In-Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	107
C-5	Sidewall	0 - 2	11/5/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	154
C-6	Sidewall	0 - 2	11/5/2020	Excavated	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	**815**
			11/9/2020	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	118
C-7	Sidewall	0 - 2	11/5/2020	Excavated	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	**659**
			11/9/2020	In-Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	91.9
C-8	Bottom	2	11/5/2020	In-Situ	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	134
C-9	Bottom	2	11/5/2020	In-Situ	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	128
C-10	Bottom	2	11/5/2020	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	119
C-11	Bottom	2	11/5/2020	In-Situ	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	209
C-12	Bottom	2	11/5/2020	In-Situ	<0.00199	<0.00199	<50.2	52.8	<50.2	52.8	145
C-13	Bottom	2	11/5/2020	Excavated	<0.00199	<0.00199	<49.8	1,280	<49.8	**1,280**	**610**
		3	11/9/2020	In-Situ	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	102
C-14	Bottom	2	11/5/2020	In-Situ	<0.00198	<0.00198	<49.0	<49.0	<49.0	<49.0	151
C-15	Bottom	2	11/5/2020	In-Situ	<0.00200	<0.00200	<48.5	<48.5	<48.5	<48.5	188
C-16	Bottom	2	11/5/2020	In-Situ	<0.00199	<0.000199	<50.0	<50.0	<50.0	<50.0	64.5
Oil-Based Mud Spill Area Excavation											
E-SW	**Sidewall**	0 - 2	11/11/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	310
N-SW	**Sidewall**	0 - 2	11/11/2020	Excavated	<0.00202	<0.00202	<50.0	105	<50.0	**105**	572
			11/19/2020	Excavated	<0.00200	<0.00200	<49.9	358	<49.9	**358**	230
			11/30/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	389
W-SW	**Sidewall**	0 - 2	11/11/2020	In-Situ	<0.00201	<0.00201	<49.9	57.8	<49.9	57.8	354
S-SW	**Sidewall**	0 - 2	11/11/2020	Excavated	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	**755**
			11/19/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	450
C'-1	**Bottom**	2	11/11/2020	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	578

Table 2
Confirmation Soil Sample Analytical Data Summary
Chevron USA, HH SO 17 20 Fed 001
Eddy County, New Mexico
North 32.05114 West -104.21480

C'-2	**Bottom**	2	11/11/2020	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	245
C'-3	**Bottom**	2	11/11/2020	Excavated	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	**822**
		3	11/19/2020	In-Situ	<0.00200	<0.00200	<50.0	53.5	<50.0	53.5	304
C'-4	**Bottom**	2	11/11/2020	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	203
C'-5	**Bottom**	2	11/11/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	277
C'-6	**Bottom**	2	11/11/2020	Excavated	<0.00198	<0.00198	<49.9	1,410	<49.9	**1,410**	**2,110**
		3	11/19/2020	Excavated	<0.00199	<0.00199	<49.9	144	<49.9	**144**	275
		4	11/30/2020	In-Situ	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	87.6
C'-7	**Bottom**	2	11/11/2020	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	148
C'-8	**Bottom**	2	11/11/2020	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	170
C'-9	**Bottom**	2	11/11/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	192
C'-10	**Bottom**	2	11/11/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	365
C'-11	**Bottom**	2	11/11/2020	In-Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	496
C'-12	**Bottom**	2	11/11/2020	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	209
C'-13	**Bottom**	2	11/11/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	314
C'-14	**Bottom**	2	11/11/2020	Excavated	<0.00199	<0.00199	<49.9	113	<49.9	**113**	409
		3	11/19/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	183
C'-15	**Bottom**	2	11/11/2020	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	244
C'-16	**Bottom**	2	11/11/2020	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	329
C'-17	**Bottom**	2	11/11/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	228
C'-18	**Bottom**	2	11/11/2020	In-Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	310
C'-19	**Bottom**	2	11/11/2020	In-Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	108
C'-20	**Bottom**	2	11/11/2020	Excavated	<0.00202	<0.00202	<50.0	553	123	**676**	411
		3	11/19/2020	In-Situ	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	297
Backfill Caliche 1	--	--	11/13/2020	In-Situ	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	103
Backfill Caliche 2	--	--	11/13/2020	In-Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	262
Backfill Caliche 3	--	--	11/13/2020	In-Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	247
Backfill Caliche 4	--	--	11/13/2020	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	305

Notes: analysis performed by Xenco Laboratories (Xenco), Midland, Texas and Carlsbad, New Mexico by EPA SW-846 Methods 8021B (BTEX) and 8015M (TPH), and Method 300 (chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

Bold and Highlighted Denotes Conetrations Above OCD Closure Criteria

Figures

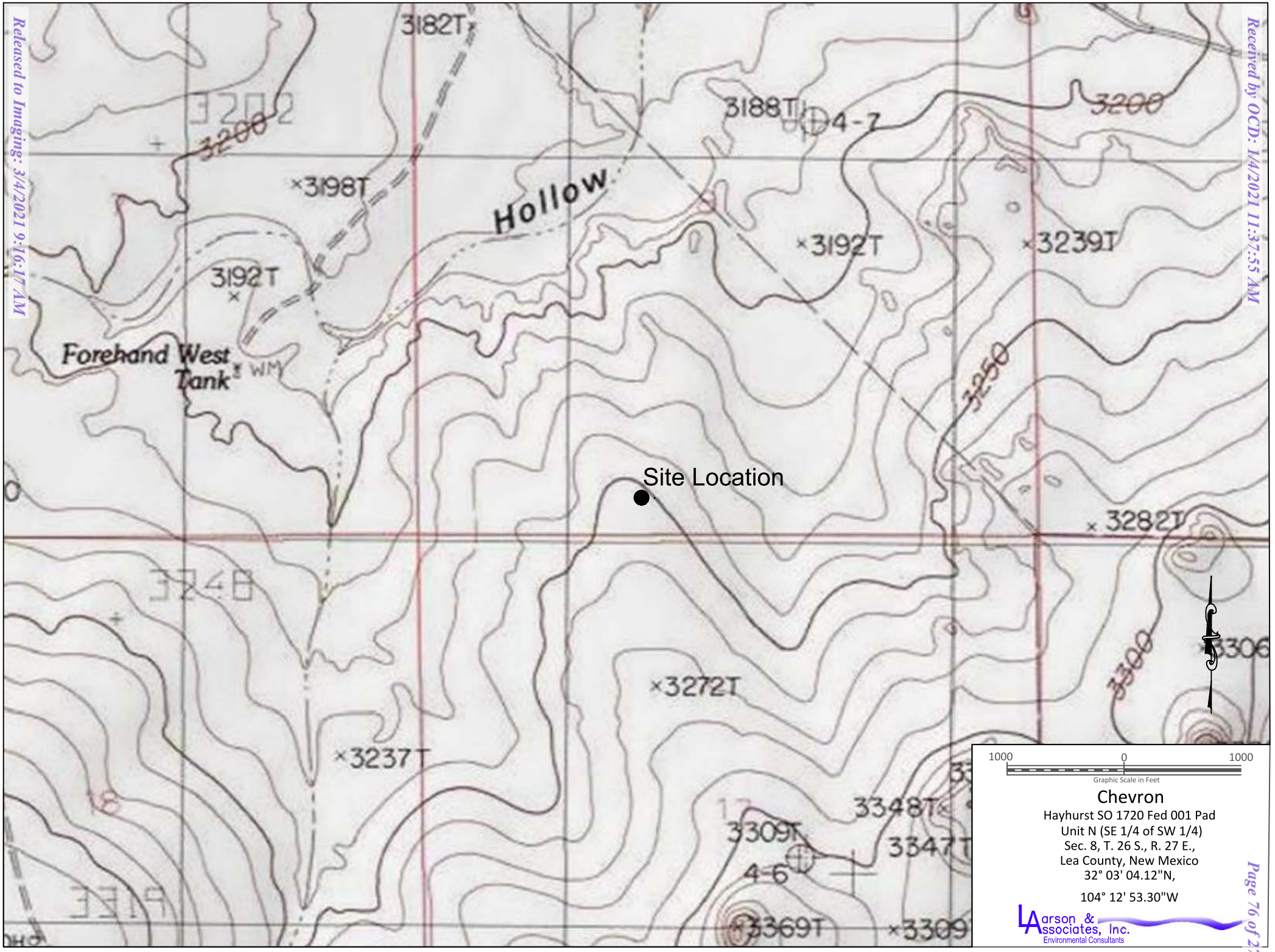


Figure 1 - Topographic Map

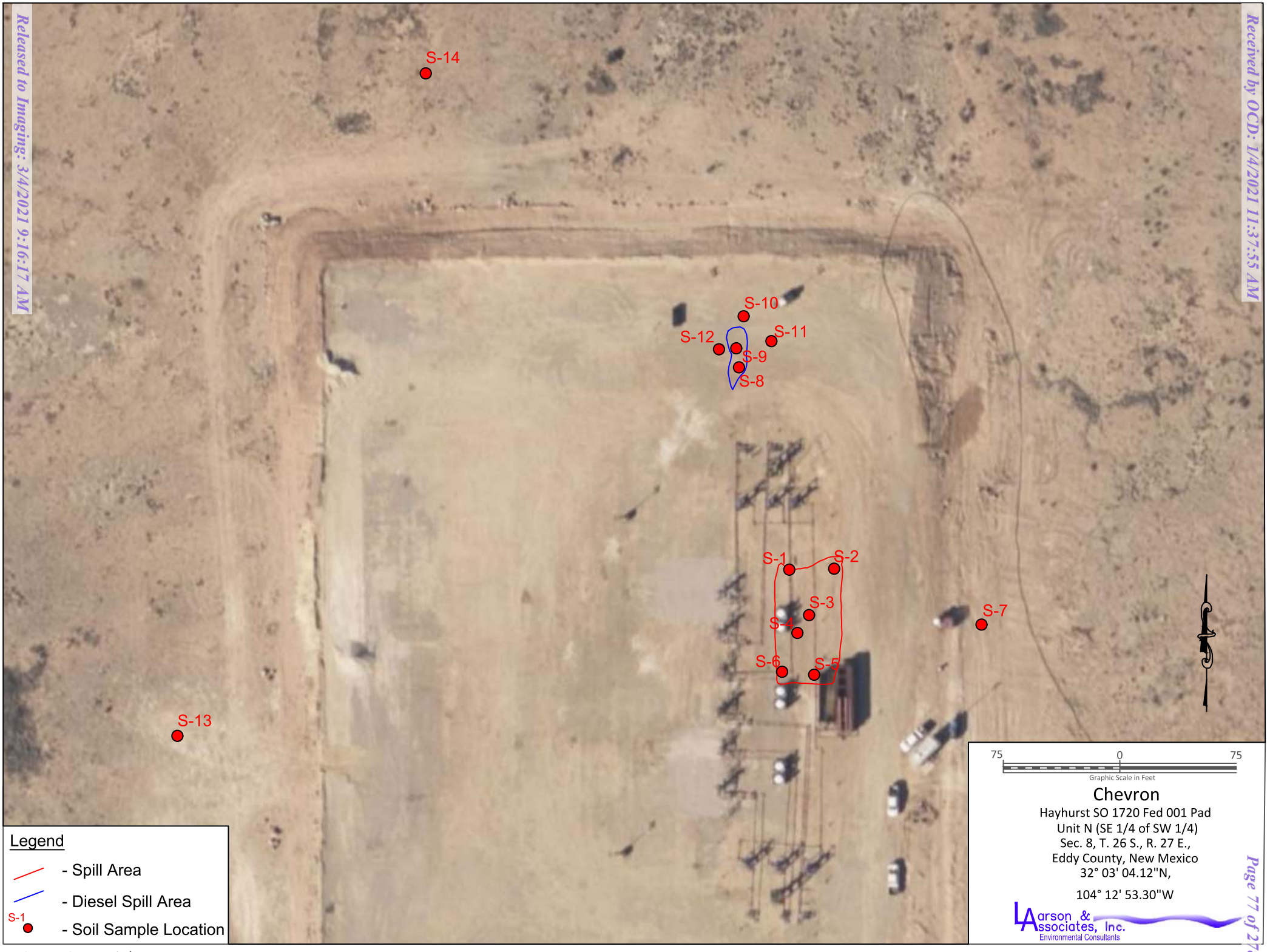


Figure 2 - Aerial Map

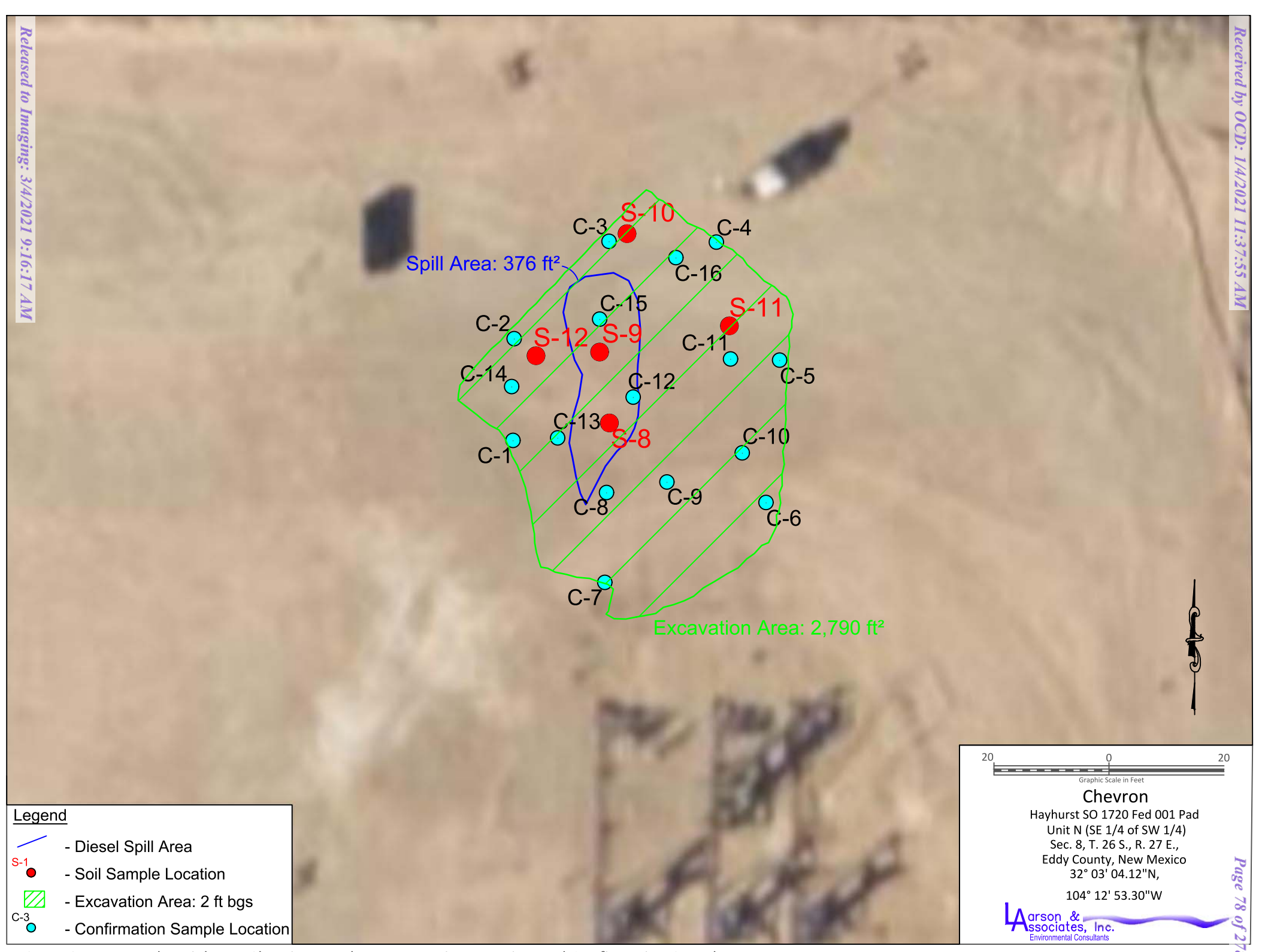


Figure 3a - Focused Aerial Map Showing Northern Excavation Location and Confirmation Samples

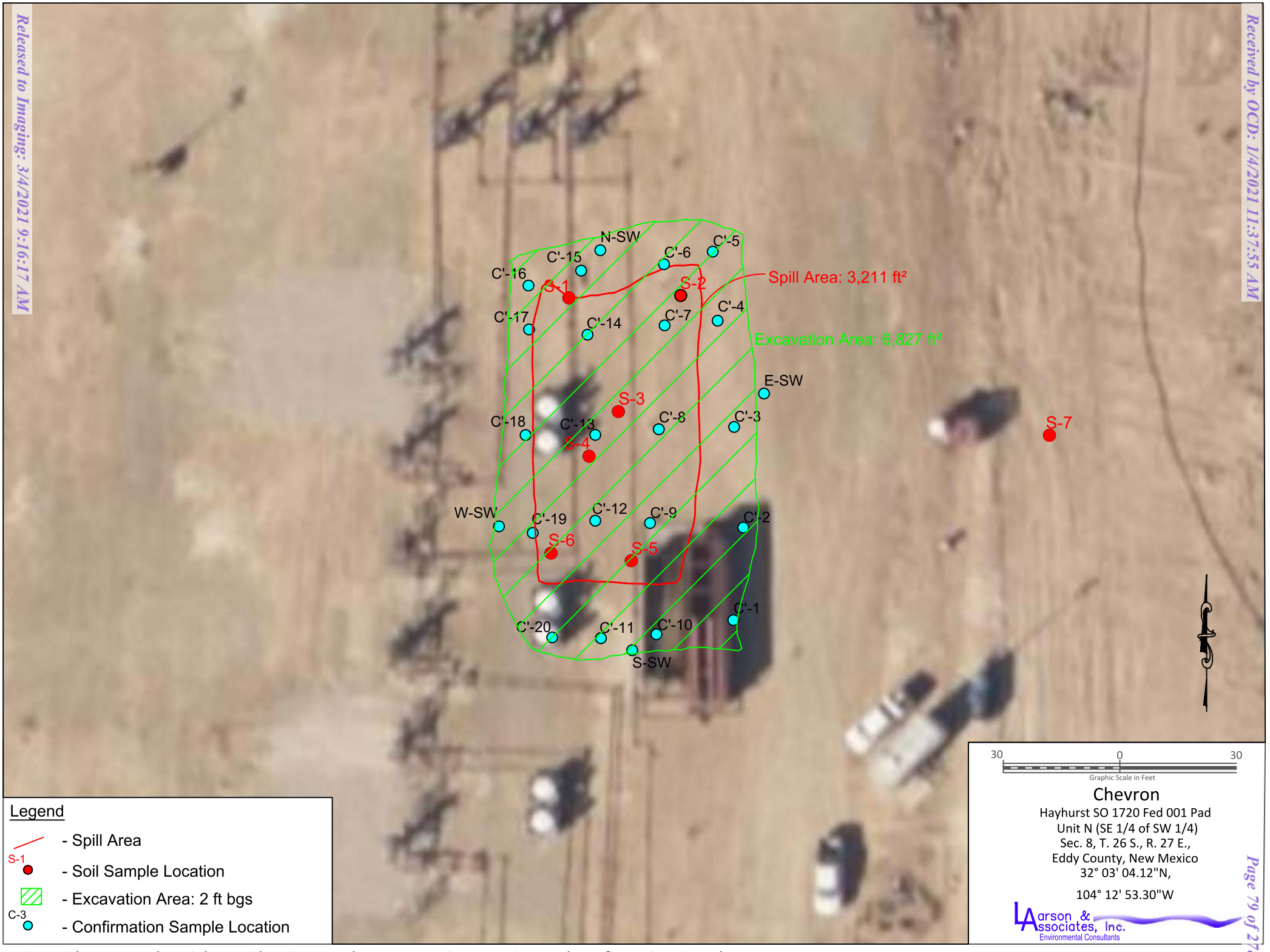


Figure 3b - Focused Aerial Map Showing Southern Excavation Location and Confirmation Samples

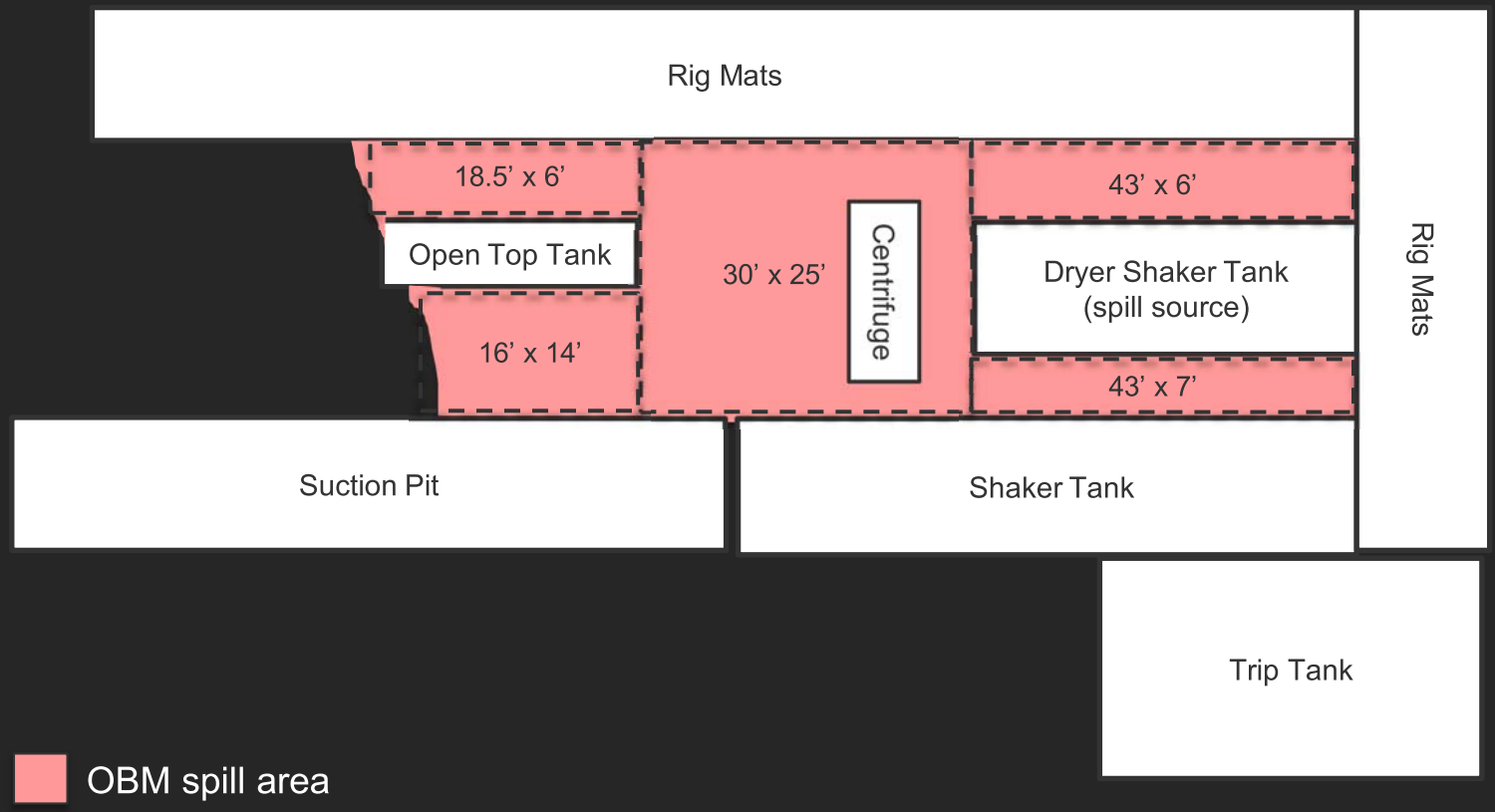
Appendix A

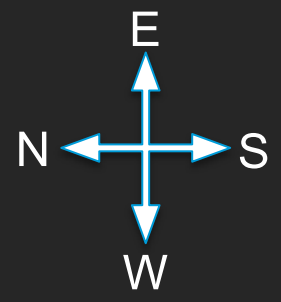
Chevron Spill Calculation - Oil Based

Mud Spill

HH SO 17 20 FED 001 1H
OBM spill to secondary containment
Date: 12/07/2018

- Diagram not to scale
- Containment area in black extends beyond area depicted
- Spill area measurements taken by hand wheel





Spill Calculation:
18.5' x 6' x 2" = 3.3 bbls
16' x 14' x 2" = 6.65 bbls
43' x 6' x 2" = 7.66 bbls
43' x 7' x 2" = 8.94 bbls
30' x 25' x 2" = 22.27 bbls

Total bbls = 48.82

Diesel Based Spill Measurements and

Calculation Photographs

Appendix B

Regulatory Communications

Rachel Owen

From: Barnhill, Amy D. <ABarnhill@chevron.com>
Sent: Wednesday, May 1, 2019 11:31 AM
To: Weaver, Crystal
Cc: Jim Amos; Deborah McKinney; Barnhill, Amy D.
Subject: RE: [**EXTERNAL**] Re: [EXTERNAL] RE: 2RP-5092 and 2RP-5111
Attachments: C141 - Diesel Spill 11092018 - HH SO.pdf; C-141 HH SO 17 20 Fed 001-1H.pdf; Spill Diagram.pptx

Follow Up Flag: Follow up
Flag Status: Flagged

Crystal,
Please see the C-141s for the spills addressed in your e-mail below. Spill 11-9-18 is 1RP-5092 and spill 12-7-19 is 1RP-5111.

- 1RP-5092

Fuel valves to the cold start generator were left in open position causing a spill of diesel to land. Standing fluid was recovered via vac truck and affected loose soil was picked up with a shovel. Pictures are attached to the initial C-141. The diesel spilled was located on the East side of the attached diagram.

- 1RP-5111

The dryer shaker tank overflowed to secondary containment, no spill to land. Spill kits were used to contain release, rig vac and vac trucks were used to recover fluid. The attached spill diagram shows the area of release.

We are going to sample the area for due diligence in determining if there were impacts to the soil. This cannot be done until all drilling and completions activities are complete, hence the request for extension. Please let me know if you have questions or concerns.

Thank you,
Amy Barnhill
Waste and Water Specialist
MCBU
Office: 432-687-7108
Cell: 432-940-8524
E-Mail: ABarnhill@chevron.com
#OurEnvironmentMatters

From: Weaver, Crystal <caweaver@blm.gov>
Sent: Wednesday, April 24, 2019 3:41 PM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>

Cc: Barnhill, Amy D. <ABarnhill@chevron.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Jim Amos <jamos@blm.gov>; Deborah McKinney <dmckinne@blm.gov>
Subject: [**EXTERNAL**] Re: [EXTERNAL] RE: 2RP-5092 and 2RP-5111

Amy,

Again I have no record of the BLM receiving an initial C-141 for either of these spills. I looked back through all of the emails that Shelly Tucker forwarded me before she left the BLM to see if anything was in those. I have one record of conversation about HH SO 17 20 Federal 001-1H but no initial C-141 attached to that chain either. Can the BLM please get the initial C-141 documents for these spills and can you make sure that for these and any spills in the future that require BLM advisement, that Chevron makes sure to include Deborah McKinney on the initial submissions and especially the submissions with the initial reporting forms - dmckinne@blm.gov.

Also again as for advisement from the BLM, if Chevron is going to ask for an extension till December this year in order to perform remediation at this location, then the BLM would like to see statements in writing that all of the standing fluids were recovered and also see what the volumes were that were unrecoverable and where location wise were the impacts of the unrecoverable volumes (i.e. include a KMZ or some shape file indicating where contaminates hit surface). i.e. If you can respond to this email similar to how you responded to the last one I sent asking for this same stuff that would be appropriate.

Thank you,

Crystal Weaver
Environmental Protection Specialist
BLM - Carlsbad, NM
Desk: 575-234-5943
Cell: 575-200-0426
caweaver@blm.gov

BLM Carlsbad Field Office
620 E. Greene Street
Carlsbad NM 88220

"3 percent of the water on this planet is considered freshwater. Of that 3 percent only 1 percent is considered accessible, meaning the majority of the remaining 2 percent is trapped in glaciers or snowfields." - National Geographic

On Mon, Apr 22, 2019 at 12:31 PM Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us> wrote:

2RP-5092 and 2RP-5111

Hello Ms. Barnhill,

OCD has received your extension request for 2RP-5092 and 2RP-5111, thank you. OCD understands the technical difficulties that a complete delineation/remediation activity presents at this time. The requested extension for the releases mentioned above is approved. However, be advised of the following:

- **NMOCD recommends a completed Site Assessment/Characterization Plan be reviewed and approve BEFORE any significant remediation works towards closure**.
- This is a Federal site. Operators must notify BLM Carlsbad Field Office regarding all spills that impact or involve federal lands. Federal sites require like approval from BLM.
- Please include our Environmental Specialist Robert.Hamlet@state.nm.us on all future correspondence.

Regards,

Victoria Venegas

EMNRD

OCD-District II

811 S First St. Artesia

NM 88210

Victoria.Venegas@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: Barnhill, Amy D. <ABarnhill@chevron.com>
Sent: Monday, April 22, 2019 8:27 AM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: [EXT] RE: 2RP-5092 and 2RP-5111

Victoria,

The two spills addressed above happened on the same pad. Although, I requested an extension on submitting a workplan until June 1, 2019, I am going to have to ask for a further extension. Unfortunately, I forgot to account for our completions crew getting on the site after drilling. The current projected date for drilling to move from this location is the end of April 2019. The completions crew will be rigging up in May and is projected to be on site through September due to the size of the pad, therefore, our third party contractor will not be able to access the location until after this date. If they try to get on site between drilling and completions, the bore sampling could compromise the compaction of the pad. We would like to ask for an extension until December 31, 2019. With the extended time, we will be able to access the location, collect samples and submit a work plan. We should also be able to have the site remediated by the end of the year, as well. Please let me know if this is acceptable. Thank you for your consideration.

Thank you,

Amy Barnhill

Waste and Water Specialist

MCBU

Office: 432-687-7108

Cell: 432-940-8524

E-Mail: ABarnhill@chevron.com

#OurEnvironmentMatters

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Wednesday, February 27, 2019 9:03 AM
To: Barnhill, Amy D. <ABarnhill@chevron.com>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Subject: [**EXTERNAL**] RE: 2RP-5092 and 2RP-5111

RE: 2RP-5092 and 2RP-5111

Amy,

Your request for an extension to June 1st, 2019 is approved. Please expedite the sampling process and work plan submittal as soon as the rig is moved.

Thank you,

Robert J Hamlet

State of New Mexico

Energy, Minerals, and Natural Resources

Oil Conservation Division

811 S. First St., Artesia NM 88210

(575) 840-5963

Robert.Hamlet@state.nm.us

From: Barnhill, Amy D. <ABarnhill@chevron.com>
Sent: Monday, February 25, 2019 6:49 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Barnhill, Amy D. <ABarnhill@chevron.com>
Subject: [EXT] RE: 2RP-5092 and 2RP-5111

Mr. Hamlet,

As you know, the two spills addressed above happened on the same pad. Although, I requested an extension on submitting a workplan until March 7, 2019, I am going to have to ask for a further extension. The current projected date for drilling to move from this location is the end of April 2019. Therefore, our third party contractor will not be able to access the location until after this date. I would ask that we are granted an extension until June 1, 2019. With the extended time, we will be able to access the location, collect samples and submit a work plan. Please let me know if this is acceptable. Thank you for your consideration.

Thank you,

Amy Barnhill

Waste and Water Specialist

MCBU

Office: 432-687-7108

Cell: 432-940-8524

E-Mail: ABarnhill@chevron.com

#OurEnvironmentMatters

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Friday, February 8, 2019 9:06 AM
To: Barnhill, Amy D. <ABarnhill@chevron.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Subject: [**EXTERNAL**] RE: 2RP-5092 and 2RP-5111

RE: 2RP-5092

Amy,

Your request for an extension to March 7th, 2019 is approved.

Thank you,

Robert J Hamlet

State of New Mexico

Energy, Minerals, and Natural Resources

Oil Conservation Division

811 S. First St., Artesia NM 88210

(575) 840-5963

Robert.Hamlet@state.nm.us

From: Barnhill, Amy D. <ABarnhill@chevron.com>
Sent: Thursday, February 7, 2019 10:38 AM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Subject: [EXT] 2RP-5092 and 2RP-5111

Hello All,

We had two spills at the same location as specified below. We have already reached the 90th day for submittal of a workplan on the first spill. Due to the second spill not at its 90 day time frame, I am asking if we can submit a workplan to include both RP numbers within the next 30 days. Thank you for your consideration.

2RP-5092 HH SO 17 20 Federal 001-2H 11/9/18

2RP-5111 HH SO 17 20 Federal 001-1H 12/7/18

Thank you,

Amy Barnhill

Waste and Water Specialist

MCBU

Office: 432-687-7108

Cell: 432-940-8524

E-Mail: ABarnhill@chevron.com

#OurEnvironmentMatters

"The highest performance you can expect is the lowest standard you set"

From: Hamlet, Robert, EMNRD
To: Bratcher, Mike, EMNRD; Bustamante, Amalia, EMNRD
Subject: FW: Initial Notification - Major Spill to Secondary Containment - Oil Based Mud
Date: Friday, December 28, 2018 8:27:25 AM
Attachments: image001.png

Trying to archive all of these e-mails. Here's an initial notification from Chevron.

From: DeLeon, Josepha <JDXD@chevron.com>
Sent: Thursday, December 13, 2018 8:19 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: [EXT] FW: Initial Notification - Major Spill to Secondary Containment - Oil Based Mud

From: DeLeon, Josepha
Sent: Thursday, December 13, 2018 8:17 AM
To: 'robert.hamlet@st.nm.us' <robert.hamlet@st.nm.us>
Subject: FW: Initial Notification - Major Spill to Secondary Containment - Oil Based Mud

Here is the info for the message I left Maria

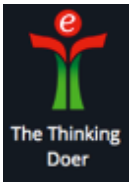
From: DeLeon, Josepha
Sent: Monday, December 10, 2018 10:33 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; 'stucker@blm.gov' <stucker@blm.gov>; 'Pruett, Maria, EMNRD' <Maria.Pruett@state.nm.us>
Subject: Initial Notification - Major Spill to Secondary Containment - Oil Based Mud

Called Maria, no answer. Did not email as I did not have details Saturday. Will follow up with C-141.

Date of Spill: 12/7/2018 22:00
Lease Name/ Number: Patterson Rig 270 - Hayhurst SO 17 20 FED 001 1H
City: Malaga
County: Eddy County
State: New Mexico
Lat / Long: N.32.050553/ W.104.214368
API #: 30-015-45101
Incident: Oil Based Mud SPILL TO SECONDARY CONTAINMENT (Rig Pad- compacted caliche on rig liner)
Type of secondary. containment, if applicable: compacted caliche lined drill pad.
NONE TO LAND

Material spilled: Oil Based Mud
Volume: 48.83 bbls OBM - (of this total volume, constituents are 64% oil/petroleum, 26.5% water, and 9.5% solids. This is reflected in mud report provided by MiSwaco.
Volume Recovered: 48.83 bbls
Description: Dryer shaker tank overflow. Fluid transfer from trip tank to active was stopped, spill kits were used to contain release, rig vac and vac trucks were used to recover fluid. Rig pad was washed and cleaned to confirm liner integrity was not compromised. Confirmed no spill or leak to land.

Josie DeLeon, HES Specialist –
Compliance Support – Environmental
Chevron - MCBU
(Carlsbad, Hobbs, Eunice, Vacuum, Buckeye Gas Plant)
1616 W. Bender Blvd.
Hobbs, NM 88240
575-263-0424
432-425-1528 - cell
jdxd@chevron.com



Appendix C

Karst Risk Potential

Appendix E

Laboratory Reports

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

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: HH 50 17 20 FED 001 PAD

Project Number: 19-0180-06

Location: NM

Lab Order Number: 9K18006

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704516-17-8

Report Date: 12/04/19

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: HH 50 17 20 FED 001 PAD
Project Number: 19-0180-06
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 @ (0-0.5')	9K18006-01	Soil	11/15/19 14:46	11-18-2019 09:14
S-2 @ (0-0.5')	9K18006-02	Soil	11/15/19 14:30	11-18-2019 09:14
S-3 @ (0-0.5')	9K18006-03	Soil	11/15/19 14:41	11-18-2019 09:14
S-4 @ (0-0.5')	9K18006-04	Soil	11/15/19 14:49	11-18-2019 09:14
S-5 @ (0-0.5')	9K18006-05	Soil	11/15/19 14:50	11-18-2019 09:14
S-6 @ (0-0.5')	9K18006-06	Soil	11/15/19 14:55	11-18-2019 09:14
S-7 @ (0-0.5')	9K18006-07	Soil	11/15/19 14:59	11-18-2019 09:14
S-8 @ (0-0.5')	9K18006-08	Soil	11/15/19 15:10	11-18-2019 09:14
S-9 @ (0-0.5')	9K18006-09	Soil	11/15/19 15:20	11-18-2019 09:14
S-10 @ (0-0.5')	9K18006-10	Soil	11/15/19 15:22	11-18-2019 09:14
S-11 @ (0-0.5')	9K18006-11	Soil	11/15/19 15:35	11-18-2019 09:14
S-12 @ (0-0.5')	9K18006-12	Soil	11/15/19 13:35	11-18-2019 09:14

Larson & Associates, Inc.	Project: HH 50 17 20 FED 001 PAD	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-06	
Midland TX, 79710	Project Manager: Mark Larson	

S-1 @ (0-0.5')

9K18006-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*95.6 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.8 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1580**	10.9	mg/kg dry	10	P9K2613	11/26/19	11/29/19	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**48.2**	27.2	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*124 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**48.2**	27.2	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

Larson & Associates, Inc.	Project: HH 50 17 20 FED 001 PAD	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-06	
Midland TX, 79710	Project Manager: Mark Larson	

S-2 @ (0-0.5')

9K18006-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.4 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.2 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2320**	10.8	mg/kg dry	10	P9K2613	11/26/19	11/29/19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**195**	26.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**5580**	26.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**59.4**	26.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*119 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*124 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**5840**	26.9	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

Larson & Associates, Inc.	Project: HH 50 17 20 FED 001 PAD	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-06	
Midland TX, 79710	Project Manager: Mark Larson	

S-3 @ (0-0.5')

9K18006-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*85.2 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4060**	10.5	mg/kg dry	10	P9K2613	11/26/19	11/29/19	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**422**	26.3	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**62.5**	26.3	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*121 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**485**	26.3	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

Larson & Associates, Inc.	Project: HH 50 17 20 FED 001 PAD	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-06	
Midland TX, 79710	Project Manager: Mark Larson	

S-4 @ (0-0.5')

9K18006-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*87.8 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1720**	12.3	mg/kg dry	10	P9K2613	11/26/19	11/29/19	EPA 300.0	
% Moisture	**19.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	30.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**1050**	30.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**111**	30.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*109 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1160**	30.9	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

Larson & Associates, Inc.	Project: HH 50 17 20 FED 001 PAD	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-06	
Midland TX, 79710	Project Manager: Mark Larson	

S-5 @ (0-0.5')

9K18006-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.4 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1770**	10.8	mg/kg dry	10	P9K2613	11/26/19	11/29/19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**1740**	26.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**181**	26.9	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*125 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1920**	26.9	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

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S-6 @ (0-0.5')

9K18006-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.7 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1920**	11.1	mg/kg dry	10	P9K2613	11/26/19	11/29/19	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**910**	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**132**	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*129 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1040**	27.8	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

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S-7 @ (0-0.5')

9K18006-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*113 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*103 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**28.9**	11.1	mg/kg dry	10	P9K2613	11/26/19	11/29/19	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*126 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*135 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

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S-8 @ (0-0.5')

9K18006-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.3 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.4 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3960**	10.6	mg/kg dry	10	P9K2613	11/26/19	11/29/19	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**4880**	26.6	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**406**	26.6	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*117 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*132 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**5280**	26.6	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

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S-9 @ (0-0.5')

9K18006-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**909**	11.1	mg/kg dry	10	P9K2714	11/27/19	11/30/19	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**5170**	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**440**	27.8	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*128 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**5610**	27.8	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

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S-10 @ (0-0.5')

9K18006-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2102	11/21/19	11/21/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.8 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*100 %*	*75-125*		*P9K2102*	*11/21/19*	*11/21/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3260**	10.2	mg/kg dry	10	P9K2714	11/27/19	11/30/19	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**3170**	25.5	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**253**	25.5	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*98.3 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*111 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**3420**	25.5	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

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S-11 @ (0-0.5')

9K18006-11 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*107 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*104 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**247**	5.10	mg/kg dry	5	P9K2714	11/27/19	11/30/19	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**40.4**	25.5	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**5180**	25.5	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	**125**	25.5	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*111 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*118 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**5350**	25.5	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

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S-12 @ (0-0.5')

9K18006-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Ethylbenzene	ND	0.00200	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (p/m)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9K2103	11/21/19	11/22/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*104 %*	*75-125*		*P9K2103*	*11/21/19*	*11/22/19*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1910**	10.4	mg/kg dry	10	P9K2714	11/27/19	11/30/19	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P9K1903	11/19/19	11/19/19	ASTM D2216	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C12-C28	**148**	26.0	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9K2006	11/20/19	11/22/19	TPH 8015M	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P9K2006*	*11/20/19*	*11/22/19*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**148**	26.0	mg/kg dry	1	[CALC]	11/20/19	11/22/19	calc	

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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 P9K2102 - General Preparation (GC)										
Blank (P9K2102-BLK1)				Prepared & Analyzed: 11/21/19						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.138*		"	*0.120*		*115*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.5*	*75-125*			
LCS (P9K2102-BS1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0857	0.00100	mg/kg wet	0.100		85.7	80-120			
Toluene	0.0932	0.00100	"	0.100		93.2	80-120			
Ethylbenzene	0.113	0.00200	"	0.100		113	80-120			
Xylene (p/m)	0.183	0.00100	"	0.200		91.4	80-120			
Xylene (o)	0.0889	0.00100	"	0.100		88.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.114*		"	*0.120*		*94.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*75-125*			
LCS Dup (P9K2102-BSD1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0940	0.00100	mg/kg wet	0.100		94.0	80-120	9.15	20	
Toluene	0.0996	0.00100	"	0.100		99.6	80-120	6.65	20	
Ethylbenzene	0.108	0.00200	"	0.100		108	80-120	4.01	20	
Xylene (p/m)	0.199	0.00100	"	0.200		99.6	80-120	8.54	20	
Xylene (o)	0.105	0.00100	"	0.100		105	80-120	16.8	20	
Surrogate: 4-Bromofluorobenzene	*0.112*		"	*0.120*		*93.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.127*		"	*0.120*		*106*	*75-125*			
Calibration Blank (P9K2102-CCB1)				Prepared & Analyzed: 11/21/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.140*		"	*0.120*		*117*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.119*		"	*0.120*		*99.5*	*75-125*			

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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 P9K2102 - General Preparation (GC)										
Calibration Blank (P9K2102-CCB2)				Prepared & Analyzed: 11/21/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.0*	*75-125*			
Calibration Blank (P9K2102-CCB3)				Prepared & Analyzed: 11/21/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.121*		*"*	*0.120*		*101*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*75-125*			
Calibration Check (P9K2102-CCV1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0845	0.00100	mg/kg wet	0.100		84.5	80-120			
Toluene	0.0888	0.00100	"	0.100		88.8	80-120			
Ethylbenzene	0.106	0.00200	"	0.100		106	80-120			
Xylene (p/m)	0.187	0.00100	"	0.200		93.5	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*83.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.9*	*75-125*			
Calibration Check (P9K2102-CCV2)				Prepared & Analyzed: 11/21/19						
Benzene	0.0914	0.00100	mg/kg wet	0.100		91.4	80-120			
Toluene	0.0953	0.00100	"	0.100		95.3	80-120			
Ethylbenzene	0.107	0.00200	"	0.100		107	80-120			
Xylene (p/m)	0.190	0.00100	"	0.200		95.2	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	*0.110*		*"*	*0.120*		*91.5*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.128*		*"*	*0.120*		*107*	*75-125*			

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Project Manager: Mark Larson

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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 P9K2102 - General Preparation (GC)										
Calibration Check (P9K2102-CCV3)				Prepared & Analyzed: 11/21/19						
Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0891	0.00100	"	0.100		89.1	80-120			
Ethylbenzene	0.102	0.00200	"	0.100		102	80-120			
Xylene (p/m)	0.167	0.00100	"	0.200		83.3	80-120			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Matrix Spike (P9K2102-MS1)		**Source: 9K18001-05**		Prepared & Analyzed: 11/21/19						
Benzene	0.0788	0.00100	mg/kg dry	0.111	0.199	NR	80-120			QM-07
Toluene	0.0757	0.00100	"	0.111	0.0469	25.9	80-120			QM-07
Ethylbenzene	0.112	0.00200	"	0.111	0.0583	47.9	80-120			QM-07
Xylene (p/m)	0.170	0.00100	"	0.222	0.210	NR	80-120			QM-07
Xylene (o)	0.115	0.00100	"	0.111	0.190	NR	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	*0.137*		"	*0.133*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.150*		"	*0.133*		*113*	*75-125*			
Matrix Spike Dup (P9K2102-MSD1)		**Source: 9K18001-05**		Prepared & Analyzed: 11/21/19						
Benzene	0.0679	0.00100	mg/kg dry	0.111	0.199	NR	80-120	NR	20	QM-07
Toluene	0.0598	0.00100	"	0.111	0.0469	11.6	80-120	76.4	20	QM-07, R
Ethylbenzene	0.109	0.00200	"	0.111	0.0583	45.8	80-120	4.44	20	QM-07
Xylene (p/m)	0.174	0.00100	"	0.222	0.210	NR	80-120	NR	20	QM-07
Xylene (o)	0.126	0.00100	"	0.111	0.190	NR	80-120	NR	20	QM-07
Surrogate: 4-Bromofluorobenzene	*0.126*		"	*0.133*		*94.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.133*		*99.4*	*75-125*			
Batch P9K2103 - General Preparation (GC)										
Blank (P9K2103-BLK1)				Prepared & Analyzed: 11/21/19						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00200	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.128*		"	*0.120*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.126*		"	*0.120*		*105*	*75-125*			

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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 P9K2103 - General Preparation (GC)										
LCS (P9K2103-BS1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0925	0.00100	mg/kg wet	0.100		92.5	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.110	0.00200	"	0.100		110	80-120			
Xylene (p/m)	0.178	0.00100	"	0.200		89.2	80-120			
Xylene (o)	0.0966	0.00100	"	0.100		96.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*96.1*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.122*		"	*0.120*		*102*	*75-125*			
LCS Dup (P9K2103-BSD1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0945	0.00100	mg/kg wet	0.100		94.5	80-120	2.17	20	
Toluene	0.0972	0.00100	"	0.100		97.2	80-120	0.113	20	
Ethylbenzene	0.107	0.00200	"	0.100		107	80-120	2.71	20	
Xylene (p/m)	0.181	0.00100	"	0.200		90.6	80-120	1.57	20	
Xylene (o)	0.0978	0.00100	"	0.100		97.8	80-120	1.34	20	
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*102*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.135*		"	*0.120*		*113*	*75-125*			
Calibration Blank (P9K2103-CCB1)				Prepared & Analyzed: 11/21/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*100*	*75-125*			
Calibration Blank (P9K2103-CCB2)				Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*89.9*	*75-125*			

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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 P9K2103 - General Preparation (GC)										
Calibration Check (P9K2103-CCV1)				Prepared & Analyzed: 11/21/19						
Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0891	0.00100	"	0.100		89.1	80-120			
Ethylbenzene	0.102	0.00200	"	0.100		102	80-120			
Xylene (p/m)	0.167	0.00100	"	0.200		83.3	80-120			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		"	*0.120*		*94.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Calibration Check (P9K2103-CCV2)				Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.0852	0.00100	mg/kg wet	0.100		85.2	80-120			
Toluene	0.0856	0.00100	"	0.100		85.6	80-120			
Ethylbenzene	0.0921	0.00200	"	0.100		92.1	80-120			
Xylene (p/m)	0.164	0.00100	"	0.200		82.0	80-120			
Xylene (o)	0.0907	0.00100	"	0.100		90.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.8*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*101*	*75-125*			
Calibration Check (P9K2103-CCV3)				Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0935	0.00100	"	0.100		93.5	80-120			
Ethylbenzene	0.103	0.00200	"	0.100		103	80-120			
Xylene (p/m)	0.175	0.00100	"	0.200		87.5	80-120			
Xylene (o)	0.0955	0.00100	"	0.100		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.105*		"	*0.120*		*87.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.128*		"	*0.120*		*106*	*75-125*			
Matrix Spike (P9K2103-MS1)		**Source: 9K18006-11**		Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.0650	0.00100	mg/kg dry	0.102	ND	63.7	80-120			QM-07
Toluene	0.0598	0.00100	"	0.102	ND	58.6	80-120			QM-07
Ethylbenzene	0.0734	0.00200	"	0.102	ND	71.9	80-120			QM-07
Xylene (p/m)	0.116	0.00100	"	0.204	ND	56.7	80-120			QM-07
Xylene (o)	0.0604	0.00100	"	0.102	ND	59.2	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.122*		*95.9*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.135*		"	*0.122*		*110*	*75-125*			

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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 P9K2103 - General Preparation (GC)										
Matrix Spike Dup (P9K2103-MSD1)		**Source: 9K18006-11**		Prepared: 11/21/19 Analyzed: 11/22/19						
Benzene	0.0568	0.00100	mg/kg dry	0.102	ND	55.6	80-120	13.5	20	QM-07
Toluene	0.0496	0.00100	"	0.102	ND	48.6	80-120	18.6	20	QM-07
Ethylbenzene	0.0591	0.00200	"	0.102	ND	57.9	80-120	21.6	20	QM-07
Xylene (p/m)	0.0998	0.00100	"	0.204	ND	48.9	80-120	14.7	20	QM-07
Xylene (o)	0.0567	0.00100	"	0.102	ND	55.5	80-120	6.30	20	QM-07
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.122*		*86.4*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.122*		*97.8*	*75-125*			

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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 P9K1903 - * DEFAULT PREP *** **										
Blank (P9K1903-BLK1)				Prepared & Analyzed: 11/19/19						
% Moisture	ND	0.1	%							
Duplicate (P9K1903-DUP1)		**Source: 9K18001-06**		Prepared & Analyzed: 11/19/19						
% Moisture	7.0	0.1	%		6.0			15.4	20	
Duplicate (P9K1903-DUP2)		**Source: 9K18004-02**		Prepared & Analyzed: 11/19/19						
% Moisture	13.0	0.1	%		13.0			0.00	20	
Duplicate (P9K1903-DUP3)		**Source: 9K18006-12**		Prepared & Analyzed: 11/19/19						
% Moisture	3.0	0.1	%		4.0			28.6	20	
Batch P9K2613 - * DEFAULT PREP *** **										
Blank (P9K2613-BLK1)				Prepared: 11/26/19 Analyzed: 11/27/19						
Chloride	ND	0.100	mg/kg wet							
LCS (P9K2613-BS1)				Prepared: 11/26/19 Analyzed: 11/27/19						
Chloride	443	1.00	mg/kg wet	400		111	80-120			
LCS Dup (P9K2613-BSD1)				Prepared: 11/26/19 Analyzed: 11/27/19						
Chloride	434	1.00	mg/kg wet	400		109	80-120	2.06	20	
Calibration Blank (P9K2613-CCB1)				Prepared: 11/26/19 Analyzed: 11/27/19						
Chloride	-0.0580		mg/kg wet							
Calibration Blank (P9K2613-CCB2)				Prepared: 11/26/19 Analyzed: 11/29/19						
Chloride	-0.0580		mg/kg wet							

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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 P9K2613 - * DEFAULT PREP *** **										
Calibration Check (P9K2613-CCV1)				Prepared: 11/26/19 Analyzed: 11/27/19						
Chloride	21.2		mg/kg	20.0		106	0-200			
Calibration Check (P9K2613-CCV2)				Prepared: 11/26/19 Analyzed: 11/29/19						
Chloride	21.6		mg/kg	20.0		108	0-200			
Calibration Check (P9K2613-CCV3)				Prepared: 11/26/19 Analyzed: 11/29/19						
Chloride	23.0		mg/kg	20.0		115	0-200			
Matrix Spike (P9K2613-MS1)		**Source: 9K18004-08**		Prepared: 11/26/19 Analyzed: 11/27/19						
Chloride	8450	31.2	mg/kg dry	3120	5120	107	80-120			
Matrix Spike (P9K2613-MS2)		**Source: 9K18006-01**		Prepared: 11/26/19 Analyzed: 11/29/19						
Chloride	2710	10.9	mg/kg dry	1090	1580	104	80-120			
Matrix Spike Dup (P9K2613-MSD1)		**Source: 9K18004-08**		Prepared: 11/26/19 Analyzed: 11/27/19						
Chloride	8330	31.2	mg/kg dry	3120	5120	103	80-120	1.43	20	
Matrix Spike Dup (P9K2613-MSD2)		**Source: 9K18006-01**		Prepared: 11/26/19 Analyzed: 11/29/19						
Chloride	2790	10.9	mg/kg dry	1090	1580	112	80-120	2.78	20	
Batch P9K2714 - * DEFAULT PREP *** **										
Blank (P9K2714-BLK1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	ND	0.100	mg/kg wet							
LCS (P9K2714-BS1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	376	1.00	mg/kg wet	400		94.1	80-120			

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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 P9K2714 - * DEFAULT PREP *** **										
LCS Dup (P9K2714-BSD1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	399	1.00	mg/kg wet	400		99.8	80-120	5.92	20	
Calibration Blank (P9K2714-CCB1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	0.00		mg/kg wet							
Calibration Blank (P9K2714-CCB2)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	-0.0580		mg/kg wet							
Calibration Check (P9K2714-CCV1)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P9K2714-CCV2)				Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	22.4		mg/kg	20.0		112	0-200			
Calibration Check (P9K2714-CCV3)				Prepared: 11/27/19 Analyzed: 12/01/19						
Chloride	22.2		mg/kg	20.0		111	0-200			
Matrix Spike (P9K2714-MS1)		**Source: 9K26020-09**		Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	4010	11.2	mg/kg dry	1120	3000	90.0	80-120			
Matrix Spike (P9K2714-MS2)		**Source: 9K18006-11**		Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	815	5.10	mg/kg dry	510	247	111	80-120			
Matrix Spike Dup (P9K2714-MSD1)		**Source: 9K26020-09**		Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	4170	11.2	mg/kg dry	1120	3000	104	80-120	3.80	20	
Matrix Spike Dup (P9K2714-MSD2)		**Source: 9K18006-11**		Prepared: 11/27/19 Analyzed: 11/30/19						
Chloride	822	5.10	mg/kg dry	510	247	113	80-120	0.810	20	

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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 P9K2006 - TX 1005										
Blank (P9K2006-BLK1)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*92.8*		*"*	*100*		*92.8*	*70-130*			
Surrogate: o-Terphenyl	*48.7*		*"*	*50.0*		*97.4*	*70-130*			
LCS (P9K2006-BS1)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	890	25.0	mg/kg wet	1000		89.0	75-125			
>C12-C28	940	25.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	*111*		*"*	*100*		*111*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		*"*	*50.0*		*94.1*	*70-130*			
LCS Dup (P9K2006-BSD1)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	806	25.0	mg/kg wet	1000		80.6	75-125	9.93	20	
>C12-C28	846	25.0	"	1000		84.6	75-125	10.6	20	
Surrogate: 1-Chlorooctane	*97.4*		*"*	*100*		*97.4*	*70-130*			
Surrogate: o-Terphenyl	*42.3*		*"*	*50.0*		*84.6*	*70-130*			
Calibration Check (P9K2006-CCV1)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	474	25.0	mg/kg wet	500		94.9	85-115			
>C12-C28	511	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	*112*		*"*	*100*		*112*	*70-130*			
Surrogate: o-Terphenyl	*48.6*		*"*	*50.0*		*97.1*	*70-130*			
Calibration Check (P9K2006-CCV2)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	461	25.0	mg/kg wet	500		92.2	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		*"*	*50.0*		*95.5*	*70-130*			

Larson & Associates, Inc.	Project: HH 50 17 20 FED 001 PAD	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-06	
Midland TX, 79710	Project Manager: Mark Larson	

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 P9K2006 - TX 1005										
Calibration Check (P9K2006-CCV3)				Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	492	25.0	mg/kg wet	500		98.4	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	*114*		*"*	*100*		*114*	*70-130*			
Surrogate: o-Terphenyl	*48.7*		*"*	*50.0*		*97.4*	*70-130*			
Matrix Spike (P9K2006-MS1)		**Source: 9K19001-01**		Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	931	26.6	mg/kg dry	1060	11.8	86.4	75-125			
>C12-C28	1010	26.6	"	1060	12.2	94.0	75-125			
Surrogate: 1-Chlorooctane	*125*		*"*	*106*		*118*	*70-130*			
Surrogate: o-Terphenyl	*51.6*		*"*	*53.2*		*97.0*	*70-130*			
Matrix Spike Dup (P9K2006-MSD1)		**Source: 9K19001-01**		Prepared: 11/20/19 Analyzed: 11/22/19						
C6-C12	958	26.6	mg/kg dry	1060	11.8	89.0	75-125	2.92	20	
>C12-C28	1050	26.6	"	1060	12.2	97.4	75-125	3.65	20	
Surrogate: 1-Chlorooctane	*128*		*"*	*106*		*120*	*70-130*			
Surrogate: o-Terphenyl	*50.5*		*"*	*53.2*		*95.0*	*70-130*			

Larson & Associates, Inc.	Project: HH 50 17 20 FED 001 PAD	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-06	
Midland TX, 79710	Project Manager: Mark Larson	

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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: 12/4/2019

Brent Barron, Laboratory Director/Technical Director

Larson & Associates, Inc.	Project: HH 50 17 20 FED 001 PAD	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 19-0180-06	
Midland TX, 79710	Project Manager: Mark Larson	

№ 0830

CHAIN-OF-CUSTOD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/18/2019 PAGE 1 OF 1

PO#: LAB WORK ORDER#: 9K18006

PROJECT LOCATION OR NAME: HH SD 17 20 Fed Com 1 pa

LAI PROJECT #: 19-018006 COLLECTOR: RD

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐ M320

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	FIELD NOTES
S-1 (0-0.5')	1	11/15/19	14:46	S	1				X		
S-2 (0-0.5')	2		14:30								
S-3 (0-0.5')	3		14:41								
S-4 (0-0.5')	4		14:49								
S-5 (0-0.5')	5		14:50								
S-6 (0-0.5')	6		14:55								
S-7 (0-0.5')	7		14:59								
S-8 (0-0.5')	8		15:10								
S-9 (0-0.5')	9		15:20								
S-10 (0-0.5')	10		15:22								
S-11 (0-0.5')	11		15:35								
S-12 (0-0.5')	12		13:35								

TOTAL 12

RELINQUISHED BY:(Signature) DATE/TIME 11/15/19 9:14 RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: PBEL

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: -5.5-4.5 CF+1 12 THERM#:
CUSTODY SEALS - ☐ BRDKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Certificate of Analysis Summary 647299

Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst SO 1720 FED PAD 1

Project Id: 19-0180-06
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 04:25 pm
Report Date: 27-DEC-19
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	647299-001		647299-002		647299-003		647299-004		647299-005		647299-006	
	Field Id:	S-1		S-2		S-3		S-4		S-5		S-6	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-19-19 13:20		Dec-19-19 12:30		Dec-19-19 13:15		Dec-19-19 13:50		Dec-19-19 14:40		Dec-19-19 14:20	
BTEX by EPA 8021B	***Extracted:***	Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45	
	Analyzed:	Dec-25-19 07:19		Dec-25-19 07:40		Dec-25-19 08:00		Dec-25-19 08:20		Dec-25-19 08:41		Dec-25-19 09:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202
m,p-Xylenes		<0.00401	0.00401	<0.00399	0.00399	<0.00398	0.00398	<0.00397	0.00397	<0.00402	0.00402	<0.00403	0.00403
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202
Chloride by EPA 300	***Extracted:***	Dec-20-19 19:00		Dec-20-19 19:00		Dec-20-19 19:00		Dec-20-19 19:00		Dec-20-19 19:00		Dec-20-19 19:00	
	Analyzed:	Dec-21-19 23:23		Dec-21-19 23:45		Dec-21-19 23:50		Dec-22-19 00:06		Dec-22-19 00:11		Dec-22-19 00:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		223	50.4	273	49.9	223	50.0	262	49.9	121	50.0	126	50.0
TPH By SW8015 Mod	***Extracted:***	Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00	
	Analyzed:	Dec-21-19 13:23		Dec-21-19 14:27		Dec-21-19 14:48		Dec-21-19 15:09		Dec-21-19 15:30		Dec-21-19 15:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8

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Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 647299

Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst SO 1720 FED PAD 1

Project Id: 19-0180-06
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 04:25 pm
Report Date: 27-DEC-19
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	647299-007		647299-008		647299-009		647299-010		647299-011		647299-012	
	Field Id:	S-7		S-7		S-8		S-8		S-9		S-10	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-19-19 12:50		Dec-19-19 12:50		Dec-19-19 11:22		Dec-19-19 11:30		Dec-19-19 11:05		Dec-19-19 11:40	
BTEX by EPA 8021B	***Extracted:***	Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45	
	Analyzed:	Dec-25-19 09:22		Dec-25-19 09:42		Dec-25-19 10:03		Dec-25-19 10:23		Dec-25-19 12:02		Dec-25-19 12:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199
Toluene		<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199
Ethylbenzene		<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199
m,p-Xylenes		<0.00402	0.00402	<0.00402	0.00402	<0.00402	0.00402	<0.00402	0.00402	<0.00397	0.00397	<0.00398	0.00398
o-Xylene		<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199
Total Xylenes		<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199
Total BTEX		<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00198	0.00198	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	Dec-20-19 19:00		Dec-20-19 19:00		Dec-20-19 19:00		Dec-20-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00	
	Analyzed:	Dec-22-19 12:30		Dec-22-19 12:35		Dec-22-19 00:32		Dec-22-19 00:38		Dec-22-19 20:08		Dec-22-19 20:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		15.9	5.03	63.9	5.05	177	50.0	56.4	50.3	192	49.8	95.9	50.0
TPH By SW8015 Mod	***Extracted:***	Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00	
	Analyzed:	Dec-21-19 16:12		Dec-21-19 16:33		Dec-21-19 16:54		Dec-21-19 17:15		Dec-21-19 17:57		Dec-21-19 18:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0

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Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 647299

Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst SO 1720 FED PAD 1

Project Id: 19-0180-06
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 04:25 pm
Report Date: 27-DEC-19
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	647299-013		647299-014		647299-015		647299-016		647299-017		647299-018	
	Field Id:	S-10		S-11		S-12		S-12		S-13		S-13	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-19-19 11:50		Dec-19-19 11:59		Dec-19-19 10:43		Dec-19-19 10:47		Dec-19-19 15:30		Dec-19-19 15:30	
BTEX by EPA 8021B	***Extracted:***	Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45		Dec-24-19 14:45	
	Analyzed:	Dec-25-19 12:43		Dec-25-19 13:04		Dec-25-19 13:24		Dec-25-19 13:44		Dec-25-19 14:05		Dec-25-19 14:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Toluene		<0.00198	0.00198	<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Ethylbenzene		<0.00198	0.00198	<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
m,p-Xylenes		<0.00397	0.00397	<0.00403	0.00403	<0.00396	0.00396	<0.00401	0.00401	<0.00398	0.00398	<0.00402	0.00402
o-Xylene		<0.00198	0.00198	<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Total Xylenes		<0.00198	0.00198	<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Total BTEX		<0.00198	0.00198	<0.00202	0.00202	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201
Chloride by EPA 300	***Extracted:***	Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00		Dec-22-19 19:00	
	Analyzed:	Dec-23-19 08:04		Dec-23-19 08:11		Dec-22-19 20:48		Dec-22-19 20:54		Dec-23-19 08:18		Dec-22-19 21:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5.89	5.03	46.4	4.97	103	49.5	52.0	49.5	<4.95	4.95	99.2	50.3
TPH By SW8015 Mod	***Extracted:***	Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00		Dec-21-19 11:00	
	Analyzed:	Dec-21-19 18:39		Dec-21-19 19:00		Dec-21-19 19:20		Dec-21-19 19:42		Dec-21-19 20:03		Dec-21-19 20:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9

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Holly Taylor
Project Manager

Certificate of Analysis Summary 647299

Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst SO 1720 FED PAD 1

Project Id: 19-0180-06
Contact: Mark Larson
Project Location: NM

Date Received in Lab: Fri Dec-20-19 04:25 pm
Report Date: 27-DEC-19
Project Manager: Holly Taylor

Analysis Requested									
	Lab Id:	647299-019		647299-020					
	Field Id:	S-14		S-14					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	Dec-19-19 15:40		Dec-19-19 15:40					
BTEX by EPA 8021B	***Extracted:***	Dec-24-19 14:45		Dec-24-19 14:45					
	Analyzed:	Dec-25-19 14:46		Dec-25-19 15:06					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00199	0.00199				
Toluene		<0.00200	0.00200	<0.00199	0.00199				
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199				
m,p-Xylenes		<0.00400	0.00400	<0.00398	0.00398				
o-Xylene		<0.00200	0.00200	<0.00199	0.00199				
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199				
Total BTEX		<0.00200	0.00200	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Dec-22-19 19:00		Dec-22-19 19:00					
	Analyzed:	Dec-23-19 08:24		Dec-23-19 08:31					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		38.0	5.05	32.2	5.02				
TPH By SW8015 Mod	***Extracted:***	Dec-21-19 11:00		Dec-21-19 11:00					
	Analyzed:	Dec-21-19 20:46		Dec-21-19 21:07					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9				
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9				

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor
Project Manager

Analytical Report 647299

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Hayhurst SO 1720 FED PAD 1

19-0180-06

27-DEC-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

27-DEC-19

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: XENCO Report No(s): **647299**
Hayhurst SO 1720 FED PAD 1
Project Address: NM

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 647299. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 647299 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1	S	12-19-19 13:20		647299-001
S-2	S	12-19-19 12:30		647299-002
S-3	S	12-19-19 13:15		647299-003
S-4	S	12-19-19 13:50		647299-004
S-5	S	12-19-19 14:40		647299-005
S-6	S	12-19-19 14:20		647299-006
S-7	S	12-19-19 12:50		647299-007
S-7	S	12-19-19 12:50		647299-008
S-8	S	12-19-19 11:22		647299-009
S-8	S	12-19-19 11:30		647299-010
S-9	S	12-19-19 11:05		647299-011
S-10	S	12-19-19 11:40		647299-012
S-10	S	12-19-19 11:50		647299-013
S-11	S	12-19-19 11:59		647299-014
S-12	S	12-19-19 10:43		647299-015
S-12	S	12-19-19 10:47		647299-016
S-13	S	12-19-19 15:30		647299-017
S-13	S	12-19-19 15:30		647299-018
S-14	S	12-19-19 15:40		647299-019
S-14	S	12-19-19 15:40		647299-020

CASE NARRATIVE

Client Name: Larson and Associates, Inc.
Project Name: Hayhurst SO 1720 FED PAD 1

Project ID: *19-0180-06*
Work Order Number(s): *647299*

Report Date: *27-DEC-19*
Date Received: *12/20/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3111420 TPH By SW8015 Mod
Outlier/s are due to possible matrix interference.

Lab Sample ID 647299-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics (DRO), Gasoline Range Hydrocarbons (GRO) Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.
Samples in the analytical batch are: 647299-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020
Laboratory Spike recoveries and RPDs within quality control limits; therefore the data was accepted.

Batch: LBA-3111717 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-1** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-001 Date Collected: 12.19.19 13.20

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 12.20.19 19.00 Basis: Wet Weight

Seq Number: 3111383

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**223**	50.4	mg/kg	12.21.19 23.23		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 13.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 13.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 13.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	12.21.19 13.23	
o-Terphenyl	84-15-1	89	%	70-135	12.21.19 13.23	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.25.19 07.19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.25.19 07.19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.25.19 07.19	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.25.19 07.19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.25.19 07.19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.25.19 07.19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.25.19 07.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.25.19 07.19	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.25.19 07.19	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-2**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-002	Date Collected:	12.19.19 12.30		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.20.19 19.00	Basis:	Wet Weight
Seq Number:	3111383				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**273**	49.9	mg/kg	12.21.19 23.45		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 14.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 14.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 14.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	12.21.19 14.27	
o-Terphenyl	84-15-1	88	%	70-135	12.21.19 14.27	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.25.19 07.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.25.19 07.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.25.19 07.40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.25.19 07.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.25.19 07.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.25.19 07.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.25.19 07.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.25.19 07.40	
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.25.19 07.40	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-3** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-003 Date Collected: 12.19.19 13.15

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 12.20.19 19.00 Basis: Wet Weight

Seq Number: 3111383

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**223**	50.0	mg/kg	12.21.19 23.50		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.21.19 14.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 14.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.21.19 14.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	12.21.19 14.48	
o-Terphenyl	84-15-1	86	%	70-135	12.21.19 14.48	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.25.19 08.00	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.25.19 08.00	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.25.19 08.00	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.25.19 08.00	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.25.19 08.00	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.25.19 08.00	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.25.19 08.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.25.19 08.00	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.25.19 08.00	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-4**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-004	Date Collected:	12.19.19 13.50		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.20.19 19.00	Basis:	Wet Weight
Seq Number:	3111383				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**262**	49.9	mg/kg	12.22.19 00.06		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 15.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 15.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 15.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	12.21.19 15.09	
o-Terphenyl	84-15-1	86	%	70-135	12.21.19 15.09	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.25.19 08.20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.25.19 08.20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.25.19 08.20	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.25.19 08.20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.25.19 08.20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.25.19 08.20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.25.19 08.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.25.19 08.20	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.25.19 08.20	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-5** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-005 Date Collected: 12.19.19 14.40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 12.20.19 19.00 Basis: Wet Weight

Seq Number: 3111383

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**121**	50.0	mg/kg	12.22.19 00.11		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.21.19 15.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 15.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.21.19 15.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-135	12.21.19 15.30	
o-Terphenyl	84-15-1	75	%	70-135	12.21.19 15.30	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.25.19 08.41	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.25.19 08.41	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.25.19 08.41	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.25.19 08.41	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.25.19 08.41	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.25.19 08.41	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.25.19 08.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.25.19 08.41	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.25.19 08.41	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-6**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-006	Date Collected:	12.19.19 14.20		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.20.19 19.00	Basis:	Wet Weight
Seq Number:	3111383				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**126**	50.0	mg/kg	12.22.19 00.16		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.21.19 15.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.21.19 15.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.21.19 15.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	12.21.19 15.51	
o-Terphenyl	84-15-1	85	%	70-135	12.21.19 15.51	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.25.19 09.01	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.25.19 09.01	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.25.19 09.01	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.25.19 09.01	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.25.19 09.01	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.25.19 09.01	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.25.19 09.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.25.19 09.01	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.25.19 09.01	

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Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-7** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-007 Date Collected: 12.19.19 12.50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 12.20.19 19.00 Basis: Wet Weight

Seq Number: 3111383

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15.9**	5.03	mg/kg	12.22.19 12.30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.21.19 16.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 16.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.21.19 16.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	12.21.19 16.12	
o-Terphenyl	84-15-1	82	%	70-135	12.21.19 16.12	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.25.19 09.22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.25.19 09.22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.25.19 09.22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.25.19 09.22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.25.19 09.22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.25.19 09.22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.25.19 09.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.25.19 09.22	
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.25.19 09.22	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	S-7	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-008	Date Collected:	12.19.19 12.50		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.20.19 19.00	Basis:	Wet Weight
Seq Number:	3111383				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**63.9**	5.05	mg/kg	12.22.19 12.35		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 16.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 16.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 16.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	12.21.19 16.33	
o-Terphenyl	84-15-1	81	%	70-135	12.21.19 16.33	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.25.19 09.42	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.25.19 09.42	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.25.19 09.42	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.25.19 09.42	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.25.19 09.42	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.25.19 09.42	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.25.19 09.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.25.19 09.42	
4-Bromofluorobenzene	460-00-4	102	%	70-130	12.25.19 09.42	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-8** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-009 Date Collected: 12.19.19 11.22

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 12.20.19 19.00 Basis: Wet Weight

Seq Number: 3111383

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**177**	50.0	mg/kg	12.22.19 00.32		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.21.19 16.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 16.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.21.19 16.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	12.21.19 16.54	
o-Terphenyl	84-15-1	82	%	70-135	12.21.19 16.54	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.25.19 10.03	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.25.19 10.03	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.25.19 10.03	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.25.19 10.03	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.25.19 10.03	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.25.19 10.03	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.25.19 10.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.25.19 10.03	
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.25.19 10.03	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-8**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-010	Date Collected:	12.19.19 11.30		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	12.20.19 19.00	Basis:	Wet Weight
Seq Number:	3111383				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.4**	50.3	mg/kg	12.22.19 00.38		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 17.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 17.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 17.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	12.21.19 17.15	
o-Terphenyl	84-15-1	81	%	70-135	12.21.19 17.15	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.25.19 10.23	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.25.19 10.23	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.25.19 10.23	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.25.19 10.23	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.25.19 10.23	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.25.19 10.23	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.25.19 10.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.25.19 10.23	
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.25.19 10.23	

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Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-9** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-011 Date Collected: 12.19.19 11.05

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**192**	49.8	mg/kg	12.22.19 20.08		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 17.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 17.57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 17.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	12.21.19 17.57	
o-Terphenyl	84-15-1	80	%	70-135	12.21.19 17.57	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.25.19 12.02	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.25.19 12.02	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.25.19 12.02	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.25.19 12.02	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.25.19 12.02	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.25.19 12.02	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.25.19 12.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.25.19 12.02	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.25.19 12.02	

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Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-10** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-012 Date Collected: 12.19.19 11.40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**95.9**	50.0	mg/kg	12.22.19 20.15		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.21.19 18.18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 18.18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.21.19 18.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	12.21.19 18.18	
o-Terphenyl	84-15-1	82	%	70-135	12.21.19 18.18	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.25.19 12.23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.25.19 12.23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.25.19 12.23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.25.19 12.23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.25.19 12.23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.25.19 12.23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.25.19 12.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.25.19 12.23	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.25.19 12.23	

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Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-10**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-013	Date Collected:	12.19.19 11.50		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.89**	5.03	mg/kg	12.23.19 08.04		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 18.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 18.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 18.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	12.21.19 18.39	
o-Terphenyl	84-15-1	80	%	70-135	12.21.19 18.39	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.25.19 12.43	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.25.19 12.43	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.25.19 12.43	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.25.19 12.43	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.25.19 12.43	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.25.19 12.43	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.25.19 12.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.25.19 12.43	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.25.19 12.43	

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Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-11** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-014 Date Collected: 12.19.19 11.59

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**46.4**	4.97	mg/kg	12.23.19 08.11		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 19.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 19.00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 19.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	12.21.19 19.00	
o-Terphenyl	84-15-1	79	%	70-135	12.21.19 19.00	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.25.19 13.04	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.25.19 13.04	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.25.19 13.04	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.25.19 13.04	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.25.19 13.04	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.25.19 13.04	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.25.19 13.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.25.19 13.04	
1,4-Difluorobenzene	540-36-3	106	%	70-130	12.25.19 13.04	

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Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-12** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-015 Date Collected: 12.19.19 10.43

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**103**	49.5	mg/kg	12.22.19 20.48		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.21.19 19.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.21.19 19.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.21.19 19.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	12.21.19 19.20	
o-Terphenyl	84-15-1	81	%	70-135	12.21.19 19.20	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.25.19 13.24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.25.19 13.24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.25.19 13.24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	12.25.19 13.24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.25.19 13.24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.25.19 13.24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.25.19 13.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.25.19 13.24	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.25.19 13.24	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-12**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-016	Date Collected:	12.19.19 10.47		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**52.0**	49.5	mg/kg	12.22.19 20.54		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.21.19 19.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 19.42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.21.19 19.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.21.19 19.42	
o-Terphenyl	84-15-1	94	%	70-135	12.21.19 19.42	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.25.19 13.44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.25.19 13.44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.25.19 13.44	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.25.19 13.44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.25.19 13.44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.25.19 13.44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.25.19 13.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.25.19 13.44	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.25.19 13.44	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-13**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-017	Date Collected:	12.19.19 15.30		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	12.23.19 08.18	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 20.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 20.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 20.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.21.19 20.03	
o-Terphenyl	84-15-1	86	%	70-135	12.21.19 20.03	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.25.19 14.05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.25.19 14.05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.25.19 14.05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.25.19 14.05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.25.19 14.05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.25.19 14.05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.25.19 14.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.25.19 14.05	
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.25.19 14.05	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id: **S-13** Matrix: Soil Date Received:12.20.19 16.25

Lab Sample Id: 647299-018 Date Collected: 12.19.19 15.30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 12.22.19 19.00 Basis: Wet Weight

Seq Number: 3111388

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**99.2**	50.3	mg/kg	12.22.19 21.07		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 12.21.19 11.00 Basis: Wet Weight

Seq Number: 3111420

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 20.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 20.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 20.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	12.21.19 20.24	
o-Terphenyl	84-15-1	81	%	70-135	12.21.19 20.24	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: KTL % Moisture:

Analyst: KTL Date Prep: 12.24.19 14.45 Basis: Wet Weight

Seq Number: 3111717

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.25.19 14.25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.25.19 14.25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.25.19 14.25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.25.19 14.25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.25.19 14.25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.25.19 14.25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.25.19 14.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	12.25.19 14.25	
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.25.19 14.25	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-14**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-019	Date Collected:	12.19.19 15.40		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**38.0**	5.05	mg/kg	12.23.19 08.24		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.21.19 20.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.21.19 20.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.21.19 20.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	12.21.19 20.46	
o-Terphenyl	84-15-1	81	%	70-135	12.21.19 20.46	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.25.19 14.46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.25.19 14.46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.25.19 14.46	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.25.19 14.46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.25.19 14.46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.25.19 14.46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.25.19 14.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.25.19 14.46	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.25.19 14.46	

Certificate of Analytical Results 647299

Larson and Associates, Inc., Midland, TX

Hayhurst SO 1720 FED PAD 1

Sample Id:	**S-14**	Matrix:	Soil	Date Received:	12.20.19 16.25
Lab Sample Id:	647299-020	Date Collected:	12.19.19 15.40		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	12.22.19 19.00	Basis:	Wet Weight
Seq Number:	3111388				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.2**	5.02	mg/kg	12.23.19 08.31		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	12.21.19 11.00	Basis:	Wet Weight
Seq Number:	3111420				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.21.19 21.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.21.19 21.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.21.19 21.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	12.21.19 21.07	
o-Terphenyl	84-15-1	83	%	70-135	12.21.19 21.07	

Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	12.24.19 14.45	Basis:	Wet Weight
Seq Number:	3111717				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.25.19 15.06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.25.19 15.06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.25.19 15.06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.25.19 15.06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.25.19 15.06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.25.19 15.06	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.25.19 15.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.25.19 15.06	
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.25.19 15.06	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 647299

Larson and Associates, Inc.

Hayhurst SO 1720 FED PAD 1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3111383 Matrix: Solid Date Prep: 12.20.19
MB Sample Id: 7693026-1-BLK LCS Sample Id: 7693026-1-BKS LCSD Sample Id: 7693026-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	272	109	274	110	90-110	1	20	mg/kg	12.21.19 22:04	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3111388 Matrix: Solid Date Prep: 12.22.19
MB Sample Id: 7693046-1-BLK LCS Sample Id: 7693046-1-BKS LCSD Sample Id: 7693046-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	261	104	262	105	90-110	0	20	mg/kg	12.22.19 19:36	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3111383 Matrix: Soil Date Prep: 12.20.19
Parent Sample Id: 647264-023 MS Sample Id: 647264-023 S MSD Sample Id: 647264-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.08	249	292	114	294	115	90-110	1	20	mg/kg	12.21.19 22:20	X

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3111383 Matrix: Soil Date Prep: 12.20.19
Parent Sample Id: 647264-032 MS Sample Id: 647264-032 S MSD Sample Id: 647264-032 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.0	252	293	110	293	110	90-110	0	20	mg/kg	12.21.19 23:34	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3111388 Matrix: Soil Date Prep: 12.22.19
Parent Sample Id: 647206-029 MS Sample Id: 647206-029 S MSD Sample Id: 647206-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	321	248	589	108	579	104	90-110	2	20	mg/kg	12.22.19 19:55	

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 647299

Larson and Associates, Inc.

Hayhurst SO 1720 FED PAD 1

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3111388 Matrix: Soil Date Prep: 12.22.19
Parent Sample Id: 647206-032 MS Sample Id: 647206-032 S MSD Sample Id: 647206-032 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	34.9	249	316	113	309	110	90-110	2	20	mg/kg	12.22.19 21:27	X

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3111420 Matrix: Solid Date Prep: 12.21.19
MB Sample Id: 7693061-1-BLK LCS Sample Id: 7693061-1-BKS LCSD Sample Id: 7693061-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	886	89	954	95	70-135	7	20	mg/kg	12.21.19 12:42	
Diesel Range Organics (DRO)	<15.0	1000	860	86	933	93	70-135	8	20	mg/kg	12.21.19 12:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		106		105		70-135	%	12.21.19 12:42
o-Terphenyl	90		118		102		70-135	%	12.21.19 12:42

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3111420 Matrix: Solid Date Prep: 12.21.19
MB Sample Id: 7693061-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.21.19 12:21	

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3111420 Matrix: Soil Date Prep: 12.21.19
Parent Sample Id: 647299-001 MS Sample Id: 647299-001 S MSD Sample Id: 647299-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	860	86	1620	81	70-135	61	20	mg/kg	12.21.19 13:45	F
Diesel Range Organics (DRO)	<15.0	999	830	83	1610	81	70-135	64	20	mg/kg	12.21.19 13:45	F

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		101		70-135	%	12.21.19 13:45
o-Terphenyl	87		92		70-135	%	12.21.19 13:45

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 647299

Larson and Associates, Inc.

Hayhurst SO 1720 FED PAD 1

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3111717 — Matrix: Solid — Date Prep: 12.24.19
MB Sample Id: 7693249-1-BLK — LCS Sample Id: 7693249-1-BKS — LCSD Sample Id: 7693249-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.119	119	0.108	108	70-130	10	35	mg/kg	12.25.19 04:49	
Toluene	<0.00200	0.100	0.108	108	0.0987	99	70-130	9	35	mg/kg	12.25.19 04:49	
Ethylbenzene	<0.00200	0.100	0.107	107	0.0981	98	70-130	9	35	mg/kg	12.25.19 04:49	
m,p-Xylenes	<0.00400	0.200	0.215	108	0.200	100	70-130	7	35	mg/kg	12.25.19 04:49	
o-Xylene	<0.00200	0.100	0.109	109	0.102	102	70-130	7	35	mg/kg	12.25.19 04:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		112		113		70-130	%	12.25.19 04:49
4-Bromofluorobenzene	92		98		105		70-130	%	12.25.19 04:49

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3111717 — Matrix: Soil — Date Prep: 12.24.19
Parent Sample Id: 647299-001 — MS Sample Id: 647299-001 S — MSD Sample Id: 647299-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0908	91	0.0910	91	70-130	0	35	mg/kg	12.25.19 05:30	
Toluene	<0.00200	0.100	0.0826	83	0.0840	84	70-130	2	35	mg/kg	12.25.19 05:30	
Ethylbenzene	<0.00200	0.100	0.0817	82	0.0837	84	70-130	2	35	mg/kg	12.25.19 05:30	
m,p-Xylenes	<0.00401	0.200	0.164	82	0.170	85	70-130	4	35	mg/kg	12.25.19 05:30	
o-Xylene	<0.00200	0.100	0.0833	83	0.0859	86	70-130	3	35	mg/kg	12.25.19 05:30	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	115		115		70-130	%	12.25.19 05:30
4-Bromofluorobenzene	105		111		70-130	%	12.25.19 05:30

MS/MSD Percent Recovery	[D] = 100*(C-A) / B	LCS = Laboratory Control Sample	MS = Matrix Spike
Relative Percent Difference	RPD = 200* | (C-E) / (C+E) |	A = Parent Result	B = Spike Added
LCS/LCSD Recovery	[D] = 100 * (C) / [B]	C = MS/LCS Result	D = MSD/LCSD % Rec
Log Difference	Log Diff. = Log(Sample Duplicate) - Log(Original Sample)	E = MSD/LCSD Result	

№ 0895

647299

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12/20/2019 PAGE 1 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Hayhurst 30 1720 FED PAD 1

LAI PROJECT #: 19.0180.016 COLLECTOR: DS/EC

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State:

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐	HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐	HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐	D.W. 200.8 ☐	TCLP ☐	RCI ☐	TOX ☐	FLASHPOINT ☐	TDS ☐	TSS ☐	% MOISTURE ☐	pH ☐	CYANIDE ☐	HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☒	ANIONS ☐	ALKALINITY ☐	300.0	FIELD NOTES
S-1		12.19.19	1320	S	1				X		X			X	X	X																									X	X		
S-2			1230																																									
S-3			1315																																									
S-4			1350																																									
S-5			1440																																									
S-6			1420																																									
S-7			1250																																									
S-7			1250																																									
S-8			1122																																									
S-8			1130																																									
S-9			1105																																									
S-10			1140																																									
S-10			1150																																									
S-11			1159																																									
S-12			1043																																									
TOTAL					15																																						

RELINQUISHED BY:(Signature) DATE/TIME 12/20/19 1625 RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: ENCO

TURN AROUND TIME
NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒
4 day

LABORATORY USE ONLY:
RECEIVING TEMP: 4.2 THERM#: R8
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Nº 0896

647299

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 12/20/2019 PAGE 2 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Haynest SD 1720 FED PAD 1

LAI PROJECT #: 19.0180.06 COLLECTOR: DS/EC

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State:

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☒ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☒ | DIESEL - MOD 8015 ☒ | OIL - MOD 8015 ☒ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TBLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐ | m300

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESSERVED	BTEX	TRPH	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	m300	FIELD NOTES
S-12		12.19.19	1047	S	1				X		X		X	X	X	X	
S-13			1530														
S-13			1530														
S-14			1540														
S-14			1540														

TOTAL 5

RELINQUISHED BY:(Signature) DS DATE/TIME 12/20/19 1625 RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: XENCO

TURN AROUND TIME

NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒
4 DAY

LABORATORY USE ONLY:

RECEIVING TEMP: 4.2 THERM#: R8

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL #

☐ HAND DELIVERED

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 12/20/2019 04:25:00 PM

Work Order #: 647299

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**Yes**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Connie Hernandez Date: 12/20/2019

Checklist reviewed by: Holly Taylor Date: 12/27/2019

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Certificate of Analysis Summary 676996

Larson and Associates, Inc., Midland, TX

Project Name: Chevron- Hayhurst 1720

Project Id: 19-0180-06
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 11.05.2020 12:34
Report Date: 11.09.2020 12:52
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	676996-001		676996-002		676996-003		676996-004		676996-005		676996-006	
	Field Id:	C-1		C-2		C-3		C-4		C-5		C-6	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.05.2020 10:42		11.05.2020 10:43		11.05.2020 10:44		11.05.2020 10:45		11.05.2020 10:46		11.05.2020 10:47	
BTEX by EPA 8021B	***Extracted:***	11.05.2020 14:54		11.05.2020 14:54		11.05.2020 14:54		11.05.2020 14:54		11.05.2020 15:56		11.05.2020 15:56	
	Analyzed:	11.06.2020 00:27		11.06.2020 00:50		11.06.2020 01:12		11.06.2020 01:35		11.05.2020 19:18		11.05.2020 19:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00404	0.00404	<0.00396	0.00396	<0.00398	0.00398	<0.00397	0.00397	<0.00399	0.00399	<0.00399	0.00399
o-Xylene		<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:00		11.05.2020 16:21		11.05.2020 16:21	
	Analyzed:	11.05.2020 18:39		11.05.2020 18:44		11.05.2020 18:50		11.05.2020 18:55		11.05.2020 19:28		11.05.2020 19:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		146	49.9	51.8	50.1	120	49.9	107	50.1	154	49.5	815	99.8
TPH by SW8015 Mod	***Extracted:***	11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07	
	Analyzed:	11.05.2020 16:33		11.05.2020 18:05		11.05.2020 18:25		11.05.2020 18:45		11.05.2020 19:05		11.05.2020 19:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.3	50.3
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.3	50.3
Total TPH		<49.9	49.9	<50.0	50.0	<50.2	50.2	<49.9	49.9	<50.0	50.0	<50.3	50.3

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 676996

Larson and Associates, Inc., Midland, TX

Project Name: Chevron- Hayhurst 1720

Project Id: 19-0180-06
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 11.05.2020 12:34
Report Date: 11.09.2020 12:52
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	676996-007		676996-008		676996-009		676996-010		676996-011		676996-012	
	Field Id:	C-7		C-8		C-9		C-10		C-11		C-12	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.05.2020 10:49		11.05.2020 10:51		11.05.2020 10:53		11.05.2020 10:54		11.05.2020 10:55		11.05.2020 10:56	
BTEX by EPA 8021B	***Extracted:***	11.05.2020 15:56		11.05.2020 15:56		11.05.2020 15:56		11.05.2020 15:56		11.05.2020 15:56		11.05.2020 15:56	
	Analyzed:	11.05.2020 20:02		11.05.2020 20:25		11.05.2020 20:47		11.05.2020 21:10		11.05.2020 21:32		11.05.2020 21:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00402	0.00402	<0.00402	0.00402	<0.00401	0.00401	<0.00397	0.00397	<0.00399	0.00399	<0.00398	0.00398
o-Xylene		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00201	0.00201	<0.00201	0.00201	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	11.05.2020 16:21		11.05.2020 16:21		11.05.2020 16:21		11.05.2020 16:21		11.05.2020 16:21		11.05.2020 16:21	
	Analyzed:	11.05.2020 19:50		11.05.2020 19:56		11.05.2020 20:01		11.05.2020 20:07		11.05.2020 20:23		11.05.2020 20:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		659	49.8	134	49.6	128	49.9	119	49.8	209	49.7	145	49.6
TPH by SW8015 Mod	***Extracted:***	11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07	
	Analyzed:	11.05.2020 19:46		11.05.2020 20:06		11.05.2020 20:26		11.05.2020 20:46		11.05.2020 21:27		11.05.2020 21:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.2	50.2	<50.2	50.2	<49.8	49.8	<50.2	50.2	<50.2	50.2
Diesel Range Organics (DRO)		<50.2	50.2	<50.2	50.2	<50.2	50.2	<49.8	49.8	<50.2	50.2	52.8	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<50.2	50.2	<49.8	49.8	<50.2	50.2	<50.2	50.2
Total TPH		<50.2	50.2	<50.2	50.2	<50.2	50.2	<49.8	49.8	<50.2	50.2	52.8	50.2

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 676996

Larson and Associates, Inc., Midland, TX

Project Name: Chevron- Hayhurst 1720

Project Id: 19-0180-06
Contact: Mark Larson
Project Location:

Date Received in Lab: Thu 11.05.2020 12:34
Report Date: 11.09.2020 12:52
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	676996-013		676996-014		676996-015		676996-016					
	Field Id:	C-13		C-14		C-15		C-16					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	11.05.2020 10:57		11.05.2020 10:58		11.05.2020 10:59		11.05.2020 11:00					
BTEX by EPA 8021B	***Extracted:***	11.05.2020 15:56		11.05.2020 15:56		11.05.2020 15:56		11.05.2020 15:56					
	Analyzed:	11.05.2020 22:17		11.05.2020 22:39		11.05.2020 23:57		11.06.2020 00:19					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199				
Toluene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199				
Ethylbenzene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199				
m,p-Xylenes		<0.00398	0.00398	<0.00395	0.00395	<0.00399	0.00399	<0.00398	0.00398				
o-Xylene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199				
Total Xylenes		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199				
Total BTEX		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	11.05.2020 16:21		11.05.2020 16:21		11.05.2020 16:21		11.05.2020 16:21					
	Analyzed:	11.05.2020 20:34		11.05.2020 20:40		11.05.2020 20:45		11.05.2020 21:01					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		610	49.9	151	50.1	188	50.4	64.5	50.0				
TPH by SW8015 Mod	***Extracted:***	11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07		11.05.2020 14:07					
	Analyzed:	11.05.2020 22:07		11.05.2020 22:27		11.05.2020 22:47		11.05.2020 23:07					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.0	49.0	<48.5	48.5	<50.0	50.0				
Diesel Range Organics (DRO)		1280	49.8	<49.0	49.0	<48.5	48.5	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.0	49.0	<48.5	48.5	<50.0	50.0				
Total TPH		1280	49.8	<49.0	49.0	<48.5	48.5	<50.0	50.0				

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 676996

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Chevron- Hayhurst 1720

19-0180-06

11.09.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.09.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **676996**
Chevron- Hayhurst 1720
Project Address:

Mark Larson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676996. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676996 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-1	S	11.05.2020 10:42		676996-001
C-2	S	11.05.2020 10:43		676996-002
C-3	S	11.05.2020 10:44		676996-003
C-4	S	11.05.2020 10:45		676996-004
C-5	S	11.05.2020 10:46		676996-005
C-6	S	11.05.2020 10:47		676996-006
C-7	S	11.05.2020 10:49		676996-007
C-8	S	11.05.2020 10:51		676996-008
C-9	S	11.05.2020 10:53		676996-009
C-10	S	11.05.2020 10:54		676996-010
C-11	S	11.05.2020 10:55		676996-011
C-12	S	11.05.2020 10:56		676996-012
C-13	S	11.05.2020 10:57		676996-013
C-14	S	11.05.2020 10:58		676996-014
C-15	S	11.05.2020 10:59		676996-015
C-16	S	11.05.2020 11:00		676996-016

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Chevron- Hayhurst 1720

Project ID: *19-0180-06*
Work Order Number(s): *676996*

Report Date: *11.09.2020*
Date Received: *11.05.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-1**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-001	Date Collected:	11.05.2020 10:42		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:00	% Moisture:	
Seq Number:	3141520			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**146**	49.9	mg/kg	11.05.2020 18:39		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.05.2020 16:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.05.2020 16:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.05.2020 16:33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.05.2020 16:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.05.2020 16:33	
o-Terphenyl	84-15-1	126	%	70-135	11.05.2020 16:33	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-1**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-001	Date Collected:	11.05.2020 10:42		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 14:54	% Moisture:	
Seq Number:	3141518			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.06.2020 00:27	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.06.2020 00:27	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.06.2020 00:27	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	11.06.2020 00:27	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.06.2020 00:27	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.06.2020 00:27	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.06.2020 00:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.06.2020 00:27	
1,4-Difluorobenzene	540-36-3	112	%	70-130	11.06.2020 00:27	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id: **C-2** Matrix: Soil Date Received:11.05.2020 12:34

Lab Sample Id: 676996-002 Date Collected: 11.05.2020 10:43

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.05.2020 16:00 % Moisture:

Seq Number: 3141520 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.8**	50.1	mg/kg	11.05.2020 18:44		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:

Seq Number: 3141527 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.05.2020 18:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.05.2020 18:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.2020 18:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.2020 18:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.05.2020 18:05	
o-Terphenyl	84-15-1	125	%	70-135	11.05.2020 18:05	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-2**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-002	Date Collected:	11.05.2020 10:43		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 14:54	% Moisture:	
Seq Number:	3141518			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.06.2020 00:50	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.06.2020 00:50	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.06.2020 00:50	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.06.2020 00:50	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.06.2020 00:50	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.06.2020 00:50	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.06.2020 00:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.06.2020 00:50	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.06.2020 00:50	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-3**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-003	Date Collected:	11.05.2020 10:44		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:00	% Moisture:	
Seq Number:	3141520			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**120**	49.9	mg/kg	11.05.2020 18:50		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.2020 18:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.05.2020 18:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.05.2020 18:25	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.05.2020 18:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.05.2020 18:25	
o-Terphenyl	84-15-1	124	%	70-135	11.05.2020 18:25	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-3**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-003	Date Collected:	11.05.2020 10:44		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 14:54	% Moisture:	
Seq Number:	3141518			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.06.2020 01:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.06.2020 01:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.06.2020 01:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.06.2020 01:12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.06.2020 01:12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.06.2020 01:12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.06.2020 01:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	11.06.2020 01:12	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.06.2020 01:12	

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Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-4**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-004	Date Collected:	11.05.2020 10:45		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:00	% Moisture:	
Seq Number:	3141520			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**107**	50.1	mg/kg	11.05.2020 18:55		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.05.2020 18:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.05.2020 18:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.05.2020 18:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.05.2020 18:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-135	11.05.2020 18:45	
o-Terphenyl	84-15-1	120	%	70-135	11.05.2020 18:45	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-4**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-004	Date Collected:	11.05.2020 10:45		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 14:54	% Moisture:	
Seq Number:	3141518			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.06.2020 01:35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.06.2020 01:35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.06.2020 01:35	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.06.2020 01:35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.06.2020 01:35	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.06.2020 01:35	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.06.2020 01:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.06.2020 01:35	
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.06.2020 01:35	

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Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id: **C-5** Matrix: Soil Date Received:11.05.2020 12:34

Lab Sample Id: 676996-005 Date Collected: 11.05.2020 10:46

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:

Seq Number: 3141523 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**154**	49.5	mg/kg	11.05.2020 19:28		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:

Seq Number: 3141527 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.05.2020 19:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.05.2020 19:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.2020 19:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.2020 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.05.2020 19:05	
o-Terphenyl	84-15-1	121	%	70-135	11.05.2020 19:05	

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Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-5**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-005	Date Collected:	11.05.2020 10:46		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.05.2020 19:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.05.2020 19:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.05.2020 19:18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.05.2020 19:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.05.2020 19:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.05.2020 19:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.05.2020 19:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	11.05.2020 19:18	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.05.2020 19:18	

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Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-6**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-006	Date Collected:	11.05.2020 10:47		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:21	% Moisture:	
Seq Number:	3141523			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**815**	99.8	mg/kg	11.05.2020 19:45		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.05.2020 19:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.05.2020 19:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.05.2020 19:25	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.05.2020 19:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.05.2020 19:25	
o-Terphenyl	84-15-1	127	%	70-135	11.05.2020 19:25	

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Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-6**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-006	Date Collected:	11.05.2020 10:47		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.05.2020 19:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.05.2020 19:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.05.2020 19:40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.05.2020 19:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.05.2020 19:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.05.2020 19:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.05.2020 19:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	11.05.2020 19:40	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.05.2020 19:40	

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Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-7**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-007	Date Collected:	11.05.2020 10:49		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:21	% Moisture:	
Seq Number:	3141523			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**659**	49.8	mg/kg	11.05.2020 19:50		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.2020 19:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.05.2020 19:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.05.2020 19:46	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.05.2020 19:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.05.2020 19:46	
o-Terphenyl	84-15-1	124	%	70-135	11.05.2020 19:46	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-7**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-007	Date Collected:	11.05.2020 10:49		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.05.2020 20:02	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.05.2020 20:02	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.05.2020 20:02	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.05.2020 20:02	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.05.2020 20:02	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.05.2020 20:02	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.05.2020 20:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.05.2020 20:02	
4-Bromofluorobenzene	460-00-4	106	%	70-130	11.05.2020 20:02	

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Chevron- Hayhurst 1720

Sample Id:	**C-8**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-008	Date Collected:	11.05.2020 10:51		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:21	% Moisture:	
Seq Number:	3141523			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**134**	49.6	mg/kg	11.05.2020 19:56		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.2020 20:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.05.2020 20:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.05.2020 20:06	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.05.2020 20:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.05.2020 20:06	
o-Terphenyl	84-15-1	125	%	70-135	11.05.2020 20:06	

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Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-8**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-008	Date Collected:	11.05.2020 10:51		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.05.2020 20:25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.05.2020 20:25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.05.2020 20:25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.05.2020 20:25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.05.2020 20:25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.05.2020 20:25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.05.2020 20:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	11.05.2020 20:25	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.05.2020 20:25	

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Chevron- Hayhurst 1720

Sample Id:	**C-9**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-009	Date Collected:	11.05.2020 10:53		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:21	% Moisture:	
Seq Number:	3141523			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**128**	49.9	mg/kg	11.05.2020 20:01		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.2020 20:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.05.2020 20:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.05.2020 20:26	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.05.2020 20:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	11.05.2020 20:26	
o-Terphenyl	84-15-1	125	%	70-135	11.05.2020 20:26	

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Chevron- Hayhurst 1720

Sample Id:	**C-9**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-009	Date Collected:	11.05.2020 10:53		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.05.2020 20:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.05.2020 20:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.05.2020 20:47	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.05.2020 20:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.05.2020 20:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.05.2020 20:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.05.2020 20:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.05.2020 20:47	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.05.2020 20:47	

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Chevron- Hayhurst 1720

Sample Id:	**C-10**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-010	Date Collected:	11.05.2020 10:54		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:21	% Moisture:	
Seq Number:	3141523			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**119**	49.8	mg/kg	11.05.2020 20:07		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.05.2020 20:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.05.2020 20:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.05.2020 20:46	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.05.2020 20:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.05.2020 20:46	
o-Terphenyl	84-15-1	126	%	70-135	11.05.2020 20:46	

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Chevron- Hayhurst 1720

Sample Id:	**C-10**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-010	Date Collected:	11.05.2020 10:54		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.05.2020 21:10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.05.2020 21:10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.05.2020 21:10	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.05.2020 21:10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.05.2020 21:10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.05.2020 21:10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.05.2020 21:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.05.2020 21:10	
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.05.2020 21:10	

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Chevron- Hayhurst 1720

Sample Id: **C-11** Matrix: Soil Date Received:11.05.2020 12:34

Lab Sample Id: 676996-011 Date Collected: 11.05.2020 10:55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:

Seq Number: 3141523 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**209**	49.7	mg/kg	11.05.2020 20:23		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:

Seq Number: 3141527 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.2020 21:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.05.2020 21:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.05.2020 21:27	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.05.2020 21:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	11.05.2020 21:27	
o-Terphenyl	84-15-1	124	%	70-135	11.05.2020 21:27	

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Chevron- Hayhurst 1720

Sample Id:	**C-11**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-011	Date Collected:	11.05.2020 10:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.05.2020 21:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.05.2020 21:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.05.2020 21:32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.05.2020 21:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.05.2020 21:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.05.2020 21:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.05.2020 21:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.05.2020 21:32	
4-Bromofluorobenzene	460-00-4	104	%	70-130	11.05.2020 21:32	

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Chevron- Hayhurst 1720

Sample Id: **C-12** Matrix: Soil Date Received:11.05.2020 12:34

Lab Sample Id: 676996-012 Date Collected: 11.05.2020 10:56

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:

Seq Number: 3141523 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**145**	49.6	mg/kg	11.05.2020 20:29		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:

Seq Number: 3141527 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.05.2020 21:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	**52.8**	50.2	mg/kg	11.05.2020 21:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.05.2020 21:47	U	1
Total TPH	PHC635	**52.8**	50.2	mg/kg	11.05.2020 21:47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.05.2020 21:47	
o-Terphenyl	84-15-1	122	%	70-135	11.05.2020 21:47	

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Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-12**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-012	Date Collected:	11.05.2020 10:56		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.05.2020 21:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.05.2020 21:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.05.2020 21:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.05.2020 21:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.05.2020 21:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.05.2020 21:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.05.2020 21:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.05.2020 21:54	
4-Bromofluorobenzene	460-00-4	105	%	70-130	11.05.2020 21:54	

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Chevron- Hayhurst 1720

Sample Id:	**C-13**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-013	Date Collected:	11.05.2020 10:57		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 16:21	% Moisture:	
Seq Number:	3141523			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**610**	49.9	mg/kg	11.05.2020 20:34		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.05.2020 14:07	% Moisture:	
Seq Number:	3141527			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.05.2020 22:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1280**	49.8	mg/kg	11.05.2020 22:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.05.2020 22:07	U	1
Total TPH	PHC635	**1280**	49.8	mg/kg	11.05.2020 22:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.05.2020 22:07	
o-Terphenyl	84-15-1	132	%	70-135	11.05.2020 22:07	

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Chevron- Hayhurst 1720

Sample Id:	**C-13**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-013	Date Collected:	11.05.2020 10:57		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.05.2020 22:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.05.2020 22:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.05.2020 22:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.05.2020 22:17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.05.2020 22:17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.05.2020 22:17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.05.2020 22:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	11.05.2020 22:17	
4-Bromofluorobenzene	460-00-4	98	%	70-130	11.05.2020 22:17	

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Chevron- Hayhurst 1720

Sample Id: **C-14** Matrix: Soil Date Received:11.05.2020 12:34

Lab Sample Id: 676996-014 Date Collected: 11.05.2020 10:58

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:

Seq Number: 3141523 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**151**	50.1	mg/kg	11.05.2020 20:40		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:

Seq Number: 3141527 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.0	49.0	mg/kg	11.05.2020 22:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.0	49.0	mg/kg	11.05.2020 22:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.0	49.0	mg/kg	11.05.2020 22:27	U	1
Total TPH	PHC635	<49.0	49.0	mg/kg	11.05.2020 22:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.05.2020 22:27	
o-Terphenyl	84-15-1	123	%	70-135	11.05.2020 22:27	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-14**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-014	Date Collected:	11.05.2020 10:58		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.05.2020 22:39	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.05.2020 22:39	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.05.2020 22:39	U	1
m,p-Xylenes	179601-23-1	<0.00395	0.00395	mg/kg	11.05.2020 22:39	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.05.2020 22:39	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.05.2020 22:39	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.05.2020 22:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.05.2020 22:39	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.05.2020 22:39	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id: **C-15** Matrix: Soil Date Received:11.05.2020 12:34

Lab Sample Id: 676996-015 Date Collected: 11.05.2020 10:59

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:

Seq Number: 3141523 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**188**	50.4	mg/kg	11.05.2020 20:45		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:

Seq Number: 3141527 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<48.5	48.5	mg/kg	11.05.2020 22:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<48.5	48.5	mg/kg	11.05.2020 22:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<48.5	48.5	mg/kg	11.05.2020 22:47	U	1
Total TPH	PHC635	<48.5	48.5	mg/kg	11.05.2020 22:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.05.2020 22:47	
o-Terphenyl	84-15-1	122	%	70-135	11.05.2020 22:47	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-15**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-015	Date Collected:	11.05.2020 10:59		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.05.2020 23:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.05.2020 23:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.05.2020 23:57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.05.2020 23:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.05.2020 23:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.05.2020 23:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.05.2020 23:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100	%	70-130	11.05.2020 23:57	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.05.2020 23:57	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id: **C-16** Matrix: Soil Date Received:11.05.2020 12:34

Lab Sample Id: 676996-016 Date Collected: 11.05.2020 11:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.05.2020 16:21 % Moisture:

Seq Number: 3141523 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**64.5**	50.0	mg/kg	11.05.2020 21:01		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.05.2020 14:07 % Moisture:

Seq Number: 3141527 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.05.2020 23:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.05.2020 23:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.05.2020 23:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.05.2020 23:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	11.05.2020 23:07	
o-Terphenyl	84-15-1	104	%	70-135	11.05.2020 23:07	

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Certificate of Analytical Results 676996

Larson and Associates, Inc., Midland, TX

Chevron- Hayhurst 1720

Sample Id:	**C-16**	Matrix:	Soil	Date Received:	11.05.2020 12:34
Lab Sample Id:	676996-016	Date Collected:	11.05.2020 11:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.05.2020 15:56	% Moisture:	
Seq Number:	3141526			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.06.2020 00:19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.06.2020 00:19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.06.2020 00:19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.06.2020 00:19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.06.2020 00:19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.06.2020 00:19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.06.2020 00:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.06.2020 00:19	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.06.2020 00:19	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 676996

Larson and Associates, Inc.

Chevron- Hayhurst 1720

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141520 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714604-1-BLK — LCS Sample Id: 7714604-1-BKS — LCSD Sample Id: 7714604-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	258	103	250	100	90-110	3	20	mg/kg	11.05.2020 16:17	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141523 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714636-1-BLK — LCS Sample Id: 7714636-1-BKS — LCSD Sample Id: 7714636-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	247	99	90-110	2	20	mg/kg	11.05.2020 19:17	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141520 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 676974-001 — MS Sample Id: 676974-001 S — MSD Sample Id: 676974-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	129	200	333	102	329	100	90-110	1	20	mg/kg	11.05.2020 16:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141520 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 676974-011 — MS Sample Id: 676974-011 S — MSD Sample Id: 676974-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	664	199	855	96	845	90	90-110	1	20	mg/kg	11.05.2020 17:50	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141523 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 676996-005 — MS Sample Id: 676996-005 S — MSD Sample Id: 676996-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	154	198	348	98	346	96	90-110	1	20	mg/kg	11.05.2020 19:34	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141523 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 676996-015 — MS Sample Id: 676996-015 S — MSD Sample Id: 676996-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	188	200	398	105	396	104	90-110	1	20	mg/kg	11.05.2020 20:50	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 676996

Larson and Associates, Inc.

Chevron- Hayhurst 1720

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141527 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714606-1-BLK — LCS Sample Id: 7714606-1-BKS — LCSD Sample Id: 7714606-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1110	111	1190	119	70-135	7	35	mg/kg	11.05.2020 15:53	
Diesel Range Organics (DRO)	<50.0	1000	1280	128	1180	118	70-135	8	35	mg/kg	11.05.2020 15:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		131		125		70-135	%	11.05.2020 15:53
o-Terphenyl	125		108		100		70-135	%	11.05.2020 15:53

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141527 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714606-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.05.2020 15:33	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141527 — Matrix: Soil — Date Prep: 11.05.2020
Parent Sample Id: 676996-001 — MS Sample Id: 676996-001 S — MSD Sample Id: 676996-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1050	105	1020	102	70-135	3	35	mg/kg	11.05.2020 17:25	
Diesel Range Organics (DRO)	<49.8	996	1230	123	1230	123	70-135	0	35	mg/kg	11.05.2020 17:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		120		70-135	%	11.05.2020 17:25
o-Terphenyl	108		117		70-135	%	11.05.2020 17:25

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3141518 — Matrix: Solid — Date Prep: 11.05.2020
MB Sample Id: 7714602-1-BLK — LCS Sample Id: 7714602-1-BKS — LCSD Sample Id: 7714602-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0954	95	0.0948	95	70-130	1	35	mg/kg	11.05.2020 15:27	
Toluene	<0.00200	0.100	0.0902	90	0.0899	90	70-130	0	35	mg/kg	11.05.2020 15:27	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0943	94	71-129	0	35	mg/kg	11.05.2020 15:27	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.189	95	70-135	4	35	mg/kg	11.05.2020 15:27	
o-Xylene	<0.00200	0.100	0.0940	94	0.0953	95	71-133	1	35	mg/kg	11.05.2020 15:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		100		99		70-130	%	11.05.2020 15:27
4-Bromofluorobenzene	105		106		107		70-130	%	11.05.2020 15:27

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 676996

Larson and Associates, Inc.

Chevron- Hayhurst 1720

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141526 Matrix: Solid Date Prep: 11.05.2020
MB Sample Id: 7714603-1-BLK LCS Sample Id: 7714603-1-BKS LCSD Sample Id: 7714603-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0941	94	0.0959	96	70-130	2	35	mg/kg	11.05.2020 17:15	
Toluene	<0.00200	0.100	0.0738	74	0.0753	75	70-130	2	35	mg/kg	11.05.2020 17:15	
Ethylbenzene	<0.00200	0.100	0.0923	92	0.0941	94	71-129	2	35	mg/kg	11.05.2020 17:15	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.191	96	70-135	2	35	mg/kg	11.05.2020 17:15	
o-Xylene	<0.00200	0.100	0.0923	92	0.0950	95	71-133	3	35	mg/kg	11.05.2020 17:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		99		70-130	%	11.05.2020 17:15
4-Bromofluorobenzene	100		98		101		70-130	%	11.05.2020 17:15

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141518 Matrix: Soil Date Prep: 11.05.2020
Parent Sample Id: 676974-001 MS Sample Id: 676974-001 S MSD Sample Id: 676974-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.102	102	0.101	101	70-130	1	35	mg/kg	11.05.2020 16:12	
Toluene	<0.00201	0.100	0.0948	95	0.0926	93	70-130	2	35	mg/kg	11.05.2020 16:12	
Ethylbenzene	<0.00201	0.100	0.0958	96	0.0935	94	71-129	2	35	mg/kg	11.05.2020 16:12	
m,p-Xylenes	<0.00402	0.201	0.195	97	0.193	97	70-135	1	35	mg/kg	11.05.2020 16:12	
o-Xylene	<0.00201	0.100	0.0970	97	0.0943	94	71-133	3	35	mg/kg	11.05.2020 16:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		103		70-130	%	11.05.2020 16:12
4-Bromofluorobenzene	111		108		70-130	%	11.05.2020 16:12

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3141526 Matrix: Soil Date Prep: 11.05.2020
Parent Sample Id: 676996-005 MS Sample Id: 676996-005 S MSD Sample Id: 676996-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0978	99	0.0865	87	70-130	12	35	mg/kg	11.05.2020 18:00	
Toluene	<0.00198	0.0992	0.0770	78	0.0698	70	70-130	10	35	mg/kg	11.05.2020 18:00	
Ethylbenzene	<0.00198	0.0992	0.0953	96	0.0859	86	71-129	10	35	mg/kg	11.05.2020 18:00	
m,p-Xylenes	<0.00397	0.198	0.192	97	0.173	87	70-135	10	35	mg/kg	11.05.2020 18:00	
o-Xylene	<0.00198	0.0992	0.0960	97	0.0855	86	71-133	12	35	mg/kg	11.05.2020 18:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		96		70-130	%	11.05.2020 18:00
4-Bromofluorobenzene	100		100		70-130	%	11.05.2020 18:00

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

676996 № 1388

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 10/5/2020 PAGE 1 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chevron - Hayhurst 1720

LAI PROJECT #: 19-0180-06 COLLECTOR: RW

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C-1		11/5/20	10:42	S	1				X		X		X	X	X														X		
C-2			10:43																												
C-3			10:44																												
C-4			10:45																												
C-5			10:46																												
C-6			10:47																												
C-7			10:49																												
C-8			10:51																												
C-9			10:53																												
C-10			10:54																												
C-11			10:55																												
C-12			10:56																												
C-13			10:57																												
C-14			10:58																												
C-15			10:59		1																										
TOTAL					15																										

RELINQUISHED BY:(Signature) DATE/TIME 11/5/20 12:34 RECEIVED BY: (Signature) MC 11/5/20 1240

RELINQUISHED BY:(Signature) DATE/TIME 11/5/20 1240 RECEIVED BY: (Signature) MC 11/5/20 12:34

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 2.0/2.6 THERM#: 28/26
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

6769961 №1389

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/5/2020 PAGE 2 OF 2

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chevron - Hayhurst 1720

LAI PROJECT #: 19-0180-06 COLLECTOR: RW

TRRP report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE: Time zone/State: MST

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8151 HERBICIDES ☐	8082 PCBS ☐	TBLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐ HERB ☐	Semi-VOC ☐	TOTAL METALS (RCRA) ☐	OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐	TCLP ☐	RCI ☐ TOX ☐	FLASHPOINT ☐	TDS ☐ TSS ☐	% MOISTURE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	CYANIDE ☐	EXPLOSIVES ☐	PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐	ALKALINITY ☐	FIELD NOTES
C-16		11/5/20	11:00	S	1				X		X			X	X	X																				X			
TOTAL					1																																			

RELINQUISHED BY:(Signature) DATE/TIME 11/5/20 12:34 RECEIVED BY: (Signature) ME 11/5/20 1240

RELINQUISHED BY:(Signature) DATE/TIME 11/5/20 1240 RECEIVED BY: (Signature) ME 11/5/20 12:34

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 2.8/2.6 THERM#:
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 11.05.2020 12.34.00 PM

Work Order #: 676996

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 11.05.2020

Checklist reviewed by: Holly Taylor Date: 11.06.2020

Holly Taylor

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Certificate of Analysis Summary 677296

Larson and Associates, Inc., Midland, TX

Project Name: Chevron Hayhurst

Project Id: 19-0180-06
Contact: Mark Larson
Project Location:

Date Received in Lab: Mon 11.09.2020 16:15
Report Date: 11.18.2020 12:26
Project Manager: Holly Taylor

Analysis Requested											
	Lab Id:	677296-001		677296-002		677296-003					
	Field Id:	C-13		C-6		C-7					
	Depth:										
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	11.09.2020 10:20		11.09.2020 10:25		11.09.2020 10:28					
BTEX by EPA 8021B	***Extracted:***	11.17.2020 16:00		11.17.2020 16:00		11.17.2020 16:00					
	Analyzed:	11.18.2020 01:07		11.18.2020 01:29		11.18.2020 01:52					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200				
Toluene		<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200				
Ethylbenzene		<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200				
m,p-Xylenes		<0.00398	0.00398	<0.00402	0.00402	<0.00399	0.00399				
o-Xylene		<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200				
Total Xylenes		<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200				
Total BTEX		<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	11.10.2020 15:30		11.10.2020 15:30		11.10.2020 15:30					
	Analyzed:	11.10.2020 20:03		11.10.2020 20:19		11.10.2020 20:25					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		102	50.5	118	50.0	91.9	49.7				
TPH by SW8015 Mod	***Extracted:***	11.10.2020 13:00		11.10.2020 13:00		11.10.2020 13:00					
	Analyzed:	11.10.2020 18:44		11.10.2020 19:05		11.10.2020 19:27					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<49.8	49.8	<49.8	49.8				
Diesel Range Organics (DRO)		<50.1	50.1	<49.8	49.8	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<49.8	49.8	<49.8	49.8				
Total TPH		<50.1	50.1	<49.8	49.8	<49.8	49.8				

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 677296

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Chevron Hayhurst

19-0180-06

11.18.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.18.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **677296**
Chevron Hayhurst
Project Address:

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677296. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677296 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 677296

Larson and Associates, Inc., Midland, TX

Chevron Hayhurst

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C-13	S	11.09.2020 10:20		677296-001
C-6	S	11.09.2020 10:25		677296-002
C-7	S	11.09.2020 10:28		677296-003

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Chevron Hayhurst

Project ID: *19-0180-06*
Work Order Number(s): *677296*

Report Date: *11.18.2020*
Date Received: *11.09.2020*

Sample receipt non conformances and comments:

11/17/2020 1.001 Revised to report BTEX on all samples and TPH on samples 002 and 003 per Robert Nelson (phone). HT

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 677296

Larson and Associates, Inc., Midland, TX

Chevron Hayhurst

Sample Id: **C-13** Matrix: Soil Date Received:11.09.2020 16:15

Lab Sample Id: 677296-001 Date Collected: 11.09.2020 10:20

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.10.2020 15:30 % Moisture:

Seq Number: 3141922 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**102**	50.5	mg/kg	11.10.2020 20:03		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.10.2020 13:00 % Moisture:

Seq Number: 3141919 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.10.2020 18:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.10.2020 18:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.10.2020 18:44	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.10.2020 18:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	11.10.2020 18:44	
o-Terphenyl	84-15-1	106	%	70-135	11.10.2020 18:44	

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Certificate of Analytical Results 677296

Larson and Associates, Inc., Midland, TX

Chevron Hayhurst

Sample Id:	**C-13**	Matrix:	Soil	Date Received:	11.09.2020 16:15
Lab Sample Id:	677296-001	Date Collected:	11.09.2020 10:20		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.17.2020 16:00	% Moisture:	
Seq Number:	3142570			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.18.2020 01:07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.18.2020 01:07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.18.2020 01:07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.18.2020 01:07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.18.2020 01:07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.18.2020 01:07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.18.2020 01:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.18.2020 01:07	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.18.2020 01:07	

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Certificate of Analytical Results 677296

Larson and Associates, Inc., Midland, TX

Chevron Hayhurst

Sample Id: **C-6** Matrix: Soil Date Received:11.09.2020 16:15

Lab Sample Id: 677296-002 Date Collected: 11.09.2020 10:25

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.10.2020 15:30 % Moisture:

Seq Number: 3141922 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**118**	50.0	mg/kg	11.10.2020 20:19		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.10.2020 13:00 % Moisture:

Seq Number: 3141919 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.10.2020 19:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.10.2020 19:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.10.2020 19:05	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.10.2020 19:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	11.10.2020 19:05	
o-Terphenyl	84-15-1	116	%	70-135	11.10.2020 19:05	

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Certificate of Analytical Results 677296

Larson and Associates, Inc., Midland, TX

Chevron Hayhurst

Sample Id:	**C-6**	Matrix:	Soil	Date Received:	11.09.2020 16:15
Lab Sample Id:	677296-002	Date Collected:	11.09.2020 10:25		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.17.2020 16:00	% Moisture:	
Seq Number:	3142570			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.18.2020 01:29	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.18.2020 01:29	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.18.2020 01:29	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.18.2020 01:29	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.18.2020 01:29	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.18.2020 01:29	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.18.2020 01:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.18.2020 01:29	
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.18.2020 01:29	

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Certificate of Analytical Results 677296

Larson and Associates, Inc., Midland, TX

Chevron Hayhurst

Sample Id: **C-7** Matrix: Soil Date Received:11.09.2020 16:15

Lab Sample Id: 677296-003 Date Collected: 11.09.2020 10:28

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.10.2020 15:30 % Moisture:

Seq Number: 3141922 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**91.9**	49.7	mg/kg	11.10.2020 20:25		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.10.2020 13:00 % Moisture:

Seq Number: 3141919 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.10.2020 19:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.10.2020 19:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.10.2020 19:27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.10.2020 19:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	11.10.2020 19:27	
o-Terphenyl	84-15-1	98	%	70-135	11.10.2020 19:27	

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Certificate of Analytical Results 677296

Larson and Associates, Inc., Midland, TX

Chevron Hayhurst

Sample Id:	**C-7**	Matrix:	Soil	Date Received:	11.09.2020 16:15
Lab Sample Id:	677296-003	Date Collected:	11.09.2020 10:28		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.17.2020 16:00	% Moisture:	
Seq Number:	3142570			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.18.2020 01:52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.18.2020 01:52	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.18.2020 01:52	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.18.2020 01:52	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.18.2020 01:52	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.18.2020 01:52	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.18.2020 01:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	11.18.2020 01:52	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.18.2020 01:52	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 677296

Larson and Associates, Inc.

Chevron Hayhurst

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141922 — Matrix: Solid — Date Prep: 11.10.2020
MB Sample Id: 7714926-1-BLK — LCS Sample Id: 7714926-1-BKS — LCSD Sample Id: 7714926-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	257	103	249	100	90-110	3	20	mg/kg	11.10.2020 19:14	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141922 — Matrix: Soil — Date Prep: 11.10.2020
Parent Sample Id: 677264-014 — MS Sample Id: 677264-014 S — MSD Sample Id: 677264-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	150	200	351	101	350	100	90-110	0	20	mg/kg	11.11.2020 10:15	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3141922 — Matrix: Soil — Date Prep: 11.10.2020
Parent Sample Id: 677374-007 — MS Sample Id: 677374-007 S — MSD Sample Id: 677374-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	674	199	863	95	868	97	90-110	1	20	mg/kg	11.10.2020 19:30	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141919 — Matrix: Solid — Date Prep: 11.10.2020
MB Sample Id: 7714921-1-BLK — LCS Sample Id: 7714921-1-BKS — LCSD Sample Id: 7714921-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1110	111	1160	116	70-135	4	35	mg/kg	11.10.2020 15:36	
Diesel Range Organics (DRO)	<50.0	1000	1230	123	1330	133	70-135	8	35	mg/kg	11.10.2020 15:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		130		129		70-135	%	11.10.2020 15:36
o-Terphenyl	120		119		130		70-135	%	11.10.2020 15:36

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141919 — Matrix: Solid — Date Prep: 11.10.2020
MB Sample Id: 7714921-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.10.2020 15:14	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 677296

Larson and Associates, Inc.

Chevron Hayhurst

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3141919 — Matrix: Soil — Date Prep: 11.10.2020
Parent Sample Id: 677299-002 — MS Sample Id: 677299-002 S — MSD Sample Id: 677299-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	992	99	895	90	70-135	10	35	mg/kg	11.10.2020 16:39	
Diesel Range Organics (DRO)	<50.1	1000	1130	113	1040	105	70-135	8	35	mg/kg	11.10.2020 16:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		104		70-135	%	11.10.2020 16:39
o-Terphenyl	90		108		70-135	%	11.10.2020 16:39

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142570 — Matrix: Solid — Date Prep: 11.17.2020
MB Sample Id: 7715389-1-BLK — LCS Sample Id: 7715389-1-BKS — LCSD Sample Id: 7715389-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.103	103	0.107	107	70-130	4	35	mg/kg	11.17.2020 16:11	
Toluene	<0.00200	0.100	0.0997	100	0.103	103	70-130	3	35	mg/kg	11.17.2020 16:11	
Ethylbenzene	<0.00200	0.100	0.0931	93	0.0963	96	71-129	3	35	mg/kg	11.17.2020 16:11	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.195	98	70-135	3	35	mg/kg	11.17.2020 16:11	
o-Xylene	<0.00200	0.100	0.0935	94	0.0965	97	71-133	3	35	mg/kg	11.17.2020 16:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		99		99		70-130	%	11.17.2020 16:11
4-Bromofluorobenzene	91		86		84		70-130	%	11.17.2020 16:11

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142570 — Matrix: Soil — Date Prep: 11.17.2020
Parent Sample Id: 678092-001 — MS Sample Id: 678092-001 S — MSD Sample Id: 678092-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0901	90	0.0968	97	70-130	7	35	mg/kg	11.17.2020 16:56	
Toluene	<0.00200	0.100	0.0876	88	0.0937	94	70-130	7	35	mg/kg	11.17.2020 16:56	
Ethylbenzene	<0.00200	0.100	0.0817	82	0.0880	88	71-129	7	35	mg/kg	11.17.2020 16:56	
m,p-Xylenes	<0.00401	0.200	0.166	83	0.178	89	70-135	7	35	mg/kg	11.17.2020 16:56	
o-Xylene	<0.00200	0.100	0.0812	81	0.0876	88	71-133	8	35	mg/kg	11.17.2020 16:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		70-130	%	11.17.2020 16:56
4-Bromofluorobenzene	90		86		70-130	%	11.17.2020 16:56

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

677296 №1422

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/9/20 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Chevron Haynurst

LAI PROJECT #: 19-0180-06 COLLECTOR: TJ

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESSERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 | DIESEL - MOD 8015 | OIL - MOD 8015 | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TBLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDES ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES	FIELD NOTES
C-13		11/9/20	1020	S	1				X		X X X ... X	
C-6		1	1025	1	1						... X	
C-7		1	1028	1	1						... X	
TOTAL	3											

RELINQUISHED BY:(Signature) Trent Jones DATE/TIME 11/9/20 4:15 MST RECEIVED BY: (Signature) (16:15)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 4.8/4.6 THERM#: IN1007
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 11.09.2020 04.15.00 PM

Work Order #: 677296

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	4.6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 11.09.2020

Checklist reviewed by: Holly Taylor Date: 11.11.2020

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Certificate of Analysis Summary 677843

Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst Backfill

Project Id: 19-0180-06
Contact: Mark Larson
Project Location:

Date Received in Lab: Fri 11.13.2020 12:05
Report Date: 11.20.2020 09:40
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	677843-001		677843-002		677843-003		677843-004					
	Field Id:	S-1		S-2		S-3		S-4					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	11.13.2020 10:40		11.13.2020 10:44		11.13.2020 10:47		11.13.2020 10:50					
BTEX by EPA 8021B	***Extracted:***	11.13.2020 16:40		11.13.2020 16:40		11.13.2020 16:40		11.13.2020 16:40					
	Analyzed:	11.14.2020 04:39		11.14.2020 05:01		11.14.2020 05:23		11.14.2020 05:46					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Toluene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Ethylbenzene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
m,p-Xylenes		<0.00402	0.00402	<0.00403	0.00403	<0.00398	0.00398	<0.00399	0.00399				
o-Xylene		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Total Xylenes		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Total BTEX		<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	11.13.2020 17:59		11.13.2020 17:02		11.13.2020 17:02		11.13.2020 17:02					
	Analyzed:	11.13.2020 22:42		11.13.2020 23:15		11.13.2020 23:32		11.13.2020 23:37					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		103	101	262	9.90	247	50.1	305	100				
TPH by SW8015 Mod	***Extracted:***	11.13.2020 17:00		11.13.2020 17:00		11.13.2020 17:00		11.13.2020 17:00					
	Analyzed:	11.14.2020 01:39		11.14.2020 02:00		11.14.2020 02:20		11.14.2020 02:40					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.0	50.0	<50.0	50.0	<50.0	50.0				
Diesel Range Organics (DRO)		<50.3	50.3	<50.0	50.0	<50.0	50.0	<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.0	50.0	<50.0	50.0	<50.0	50.0				
Total TPH		<50.3	50.3	<50.0	50.0	<50.0	50.0	<50.0	50.0				

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 677843

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Hayhurst Backfill

19-0180-06

11.20.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.20.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **677843**
Hayhurst Backfill
Project Address:

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677843. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677843 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1	S	11.13.2020 10:40		677843-001
S-2	S	11.13.2020 10:44		677843-002
S-3	S	11.13.2020 10:47		677843-003
S-4	S	11.13.2020 10:50		677843-004

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Hayhurst Backfill

Project ID: *19-0180-06*
Work Order Number(s): *677843*

Report Date: *11.20.2020*
Date Received: *11.13.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id: **S-1** Matrix: Soil Date Received:11.13.2020 12:05

Lab Sample Id: 677843-001 Date Collected: 11.13.2020 10:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.13.2020 17:59 % Moisture:

Seq Number: 3142337 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**103**	101	mg/kg	11.13.2020 22:42		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.13.2020 17:00 % Moisture:

Seq Number: 3142313 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.14.2020 01:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.14.2020 01:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.14.2020 01:39	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.14.2020 01:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-135	11.14.2020 01:39	
o-Terphenyl	84-15-1	112	%	70-135	11.14.2020 01:39	

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Certificate of Analytical Results 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id:	**S-1**	Matrix:	Soil	Date Received:	11.13.2020 12:05
Lab Sample Id:	677843-001	Date Collected:	11.13.2020 10:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.13.2020 16:40	% Moisture:	
Seq Number:	3142323			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.14.2020 04:39	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.14.2020 04:39	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.14.2020 04:39	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.14.2020 04:39	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.14.2020 04:39	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.14.2020 04:39	U	1
Total BTEX		<0.00201	0.00201	mg/kg	11.14.2020 04:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.14.2020 04:39	
4-Bromofluorobenzene	460-00-4	129	%	70-130	11.14.2020 04:39	

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Certificate of Analytical Results 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id: **S-2** Matrix: Soil Date Received:11.13.2020 12:05

Lab Sample Id: 677843-002 Date Collected: 11.13.2020 10:44

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 11.13.2020 17:02 % Moisture:

Seq Number: 3142338 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**262**	9.90	mg/kg	11.13.2020 23:15		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.13.2020 17:00 % Moisture:

Seq Number: 3142313 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.14.2020 02:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.14.2020 02:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.14.2020 02:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.14.2020 02:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.14.2020 02:00	
o-Terphenyl	84-15-1	116	%	70-135	11.14.2020 02:00	

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Certificate of Analytical Results 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id:	**S-2**	Matrix:	Soil	Date Received:	11.13.2020 12:05
Lab Sample Id:	677843-002	Date Collected:	11.13.2020 10:44		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.13.2020 16:40	% Moisture:	
Seq Number:	3142323			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.14.2020 05:01	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.14.2020 05:01	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.14.2020 05:01	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.14.2020 05:01	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.14.2020 05:01	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	11.14.2020 05:01	U	1
Total BTEX		<0.00202	0.00202	mg/kg	11.14.2020 05:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.14.2020 05:01	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.14.2020 05:01	

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Certificate of Analytical Results 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id:	**S-3**	Matrix:	Soil	Date Received:	11.13.2020 12:05
Lab Sample Id:	677843-003	Date Collected:	11.13.2020 10:47		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.13.2020 17:02	% Moisture:	
Seq Number:	3142338			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**247**	50.1	mg/kg	11.13.2020 23:32		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.13.2020 17:00	% Moisture:	
Seq Number:	3142313			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.14.2020 02:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.14.2020 02:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.14.2020 02:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.14.2020 02:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	11.14.2020 02:20	
o-Terphenyl	84-15-1	96	%	70-135	11.14.2020 02:20	

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Certificate of Analytical Results 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id:	**S-3**	Matrix:	Soil	Date Received:	11.13.2020 12:05
Lab Sample Id:	677843-003	Date Collected:	11.13.2020 10:47		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.13.2020 16:40	% Moisture:	
Seq Number:	3142323			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.14.2020 05:23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.14.2020 05:23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.14.2020 05:23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.14.2020 05:23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.14.2020 05:23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.14.2020 05:23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.14.2020 05:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.14.2020 05:23	
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.14.2020 05:23	

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Certificate of Analytical Results 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id:	**S-4**	Matrix:	Soil	Date Received:	11.13.2020 12:05
Lab Sample Id:	677843-004	Date Collected:	11.13.2020 10:50		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.13.2020 17:02	% Moisture:	
Seq Number:	3142338			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**305**	100	mg/kg	11.13.2020 23:37		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	11.13.2020 17:00	% Moisture:	
Seq Number:	3142313			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.14.2020 02:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.14.2020 02:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.14.2020 02:40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.14.2020 02:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	11.14.2020 02:40	
o-Terphenyl	84-15-1	106	%	70-135	11.14.2020 02:40	

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Certificate of Analytical Results 677843

Larson and Associates, Inc., Midland, TX

Hayhurst Backfill

Sample Id:	**S-4**	Matrix:	Soil	Date Received:	11.13.2020 12:05
Lab Sample Id:	677843-004	Date Collected:	11.13.2020 10:50		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	11.13.2020 16:40	% Moisture:	
Seq Number:	3142323			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.14.2020 05:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.14.2020 05:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.14.2020 05:46	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.14.2020 05:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.14.2020 05:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	11.14.2020 05:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	11.14.2020 05:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.14.2020 05:46	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.14.2020 05:46	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 677843

Larson and Associates, Inc.

Hayhurst Backfill

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142338 — Matrix: Solid — Date Prep: 11.13.2020
MB Sample Id: 7715204-1-BLK — LCS Sample Id: 7715204-1-BKS — LCSD Sample Id: 7715204-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	246	98	90-110	2	20	mg/kg	11.13.2020 23:04	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142337 — Matrix: Solid — Date Prep: 11.13.2020
MB Sample Id: 7715203-1-BLK — LCS Sample Id: 7715203-1-BKS — LCSD Sample Id: 7715203-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	244	98	90-110	2	20	mg/kg	11.13.2020 20:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142338 — Matrix: Soil — Date Prep: 11.13.2020
Parent Sample Id: 677843-002 — MS Sample Id: 677843-002 S — MSD Sample Id: 677843-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	262	199	460	99	460	99	90-110	0	20	mg/kg	11.13.2020 23:21	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142338 — Matrix: Soil — Date Prep: 11.13.2020
Parent Sample Id: 677883-006 — MS Sample Id: 677883-006 S — MSD Sample Id: 677883-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1460	202	1650	94	1650	94	90-110	0	20	mg/kg	11.14.2020 00:37	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142337 — Matrix: Soil — Date Prep: 11.13.2020
Parent Sample Id: 677806-005 — MS Sample Id: 677806-005 S — MSD Sample Id: 677806-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	344	200	543	100	540	98	90-110	1	20	mg/kg	11.13.2020 20:25	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142337 — Matrix: Soil — Date Prep: 11.13.2020
Parent Sample Id: 677810-003 — MS Sample Id: 677810-003 S — MSD Sample Id: 677810-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	20.0	199	217	99	217	99	90-110	0	20	mg/kg	11.13.2020 21:42	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 677843

Larson and Associates, Inc.

Hayhurst Backfill

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142313 — Matrix: Solid — Date Prep: 11.13.2020
MB Sample Id: 7715202-1-BLK — LCS Sample Id: 7715202-1-BKS — LCSD Sample Id: 7715202-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1070	107	957	96	70-135	11	35	mg/kg	11.13.2020 22:37	
Diesel Range Organics (DRO)	<50.0	1000	1200	120	1120	112	70-135	7	35	mg/kg	11.13.2020 22:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		130		134		70-135	%	11.13.2020 22:37
o-Terphenyl	96		114		112		70-135	%	11.13.2020 22:37

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142313 — Matrix: Solid — Date Prep: 11.13.2020
MB Sample Id: 7715202-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 22:17	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142313 — Matrix: Soil — Date Prep: 11.13.2020
Parent Sample Id: 677810-001 — MS Sample Id: 677810-001 S — MSD Sample Id: 677810-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1120	112	1020	102	70-135	9	35	mg/kg	11.13.2020 23:38	
Diesel Range Organics (DRO)	<49.8	996	994	100	1120	112	70-135	12	35	mg/kg	11.13.2020 23:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		115		70-135	%	11.13.2020 23:38
o-Terphenyl	112		98		70-135	%	11.13.2020 23:38

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142323 — Matrix: Solid — Date Prep: 11.13.2020
MB Sample Id: 7715197-1-BLK — LCS Sample Id: 7715197-1-BKS — LCSD Sample Id: 7715197-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0925	93	0.0926	93	70-130	0	35	mg/kg	11.14.2020 01:27	
Toluene	<0.00200	0.100	0.0871	87	0.0868	87	70-130	0	35	mg/kg	11.14.2020 01:27	
Ethylbenzene	<0.00200	0.100	0.0900	90	0.0894	89	71-129	1	35	mg/kg	11.14.2020 01:27	
m,p-Xylenes	<0.00400	0.200	0.181	91	0.181	91	70-135	0	35	mg/kg	11.14.2020 01:27	
o-Xylene	<0.00200	0.100	0.0923	92	0.0917	92	71-133	1	35	mg/kg	11.14.2020 01:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		97		97		70-130	%	11.14.2020 01:27
4-Bromofluorobenzene	115		106		106		70-130	%	11.14.2020 01:27

MS/MSD Percent Recovery [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 677843

Larson and Associates, Inc.

Hayhurst Backfill

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3142323 Matrix: Soil Date Prep: 11.13.2020

Parent Sample Id: 677813-003 MS Sample Id: 677813-003 S MSD Sample Id: 677813-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0948	95	0.0941	94	70-130	1	35	mg/kg	11.14.2020 02:12	
Toluene	<0.00199	0.0996	0.0908	91	0.0876	88	70-130	4	35	mg/kg	11.14.2020 02:12	
Ethylbenzene	<0.00199	0.0996	0.0934	94	0.0909	91	71-129	3	35	mg/kg	11.14.2020 02:12	
m,p-Xylenes	<0.00398	0.199	0.190	95	0.185	93	70-135	3	35	mg/kg	11.14.2020 02:12	
o-Xylene	<0.00199	0.0996	0.0942	95	0.0941	94	71-133	0	35	mg/kg	11.14.2020 02:12	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		70-130	%	11.14.2020 02:12
4-Bromofluorobenzene	114		110		70-130	%	11.14.2020 02:12

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

677843 №1425

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/13/20 PAGE 1 OF 1
PO#:
LAB WORK ORDER#:
PROJECT LOCATION OR NAME: Hayhurst backfill
LAI PROJECT #: 19-0180-06 COLLECTOR: TJ

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Analyses: BTEX ☒ MTBE ☐; TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐; GASOLINE MOD 8015 ☒; DIESEL - MOD 8015 ☒; OIL - MOD 8015 ☒; VOC 8260 ☐; SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐; 8081 PESTICIDES ☐ 8151 HERBICIDES ☐; 8082 PCBS ☐; TBLP - METALS (RCRA) ☐ TCLP VOC ☐; TCLP - PEST ☐ HERB ☐ Semi-VOC ☐; TOTAL METALS (RCRA) ☐ OTHER LIST ☐; LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐; RCI ☐ TOX ☐ FLASHPOINT ☐; TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐; pH ☐ HEXAVALENT CHROMIUM ☐; EXPLOSIVES ☐ PECHLORATE ☐; CHLORIDE ☒ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	BTEX	GASOLINE MOD 8015	DIESEL - MOD 8015	OIL - MOD 8015	CHLORIDE	FIELD NOTES
S-1		11/13/20	1040	S	1				X		X	X	X	X	X	
S-2			1044	S	1				X		X	X	X	X	X	
S-3			1047	S	1				X		X	X	X	X	X	
S-4			1050	S	1				X		X	X	X	X	X	

TOTAL 4

RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
Grant Green	11/13/20 1205	[signature]
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 5.2/5.0 THERM#: TNM007
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☒ NOT USED
☐ CARRIER BILL #
☒ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 11.13.2020 12.05.00 PM

Work Order #: 677843

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 11.13.2020

Checklist reviewed by: Holly Taylor Date: 11.15.2020

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Certificate of Analysis Summary 678539

Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst 1720

Project Id:

Contact: Mark Larson

Project Location: 19-0180-06

Date Received in Lab: Fri 11.20.2020 09:06

Report Date: 11.23.2020 18:00

Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	678539-001		678539-002		678539-003		678539-004		678539-005		678539-006	
	Field Id:	C1-14		C1-6		N-SW		C1-3		C1-20		S-SW	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.19.2020 10:30		11.19.2020 10:40		11.19.2020 10:48		11.19.2020 11:53		11.19.2020 13:19		11.19.2020 13:55	
BTEX by EPA 8021B	***Extracted:***	11.20.2020 13:30		11.20.2020 13:30		11.20.2020 13:30		11.20.2020 13:30		11.20.2020 13:30		11.20.2020 13:30	
	Analyzed:	11.20.2020 19:02		11.20.2020 19:22		11.20.2020 19:43		11.20.2020 20:03		11.20.2020 20:24		11.20.2020 20:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398	<0.00400	0.00400	<0.00401	0.00401	<0.00403	0.00403	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200
Total Xylenes		<0.002000	0.002000	<0.001990	0.001990	<0.002000	0.002000	<0.002000	0.002000	<0.002020	0.002020	<0.002000	0.002000
Total BTEX		<0.002000	0.002000	<0.001990	0.001990	<0.002000	0.002000	<0.002000	0.002000	<0.002020	0.002020	<0.002000	0.002000
Chloride by EPA 300	***Extracted:***	11.20.2020 13:15		11.20.2020 13:15		11.20.2020 13:15		11.20.2020 13:15		11.20.2020 13:15		11.20.2020 13:15	
	Analyzed:	11.20.2020 15:57		11.20.2020 16:19		11.20.2020 16:26		11.20.2020 16:34		11.20.2020 16:41		11.20.2020 16:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		183	50.0	275	49.9	230	50.4	304	49.6	297	50.0	450	49.9
TPH by SW8015 Mod	***Extracted:***	11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00		11.20.2020 11:00	
	Analyzed:	11.20.2020 13:55		11.20.2020 14:54		11.20.2020 15:14		11.20.2020 15:33		11.20.2020 15:53		11.20.2020 16:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<50.0	50.0	144	49.9	358	49.9	53.5	50.0	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	<49.8	49.8	<50.0	50.0
Total TPH		<50.00	50.00	144.0	49.90	358.0	49.90	53.50	50.00	<49.80	49.80	<50.00	50.00

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 678539

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Hayhurst 1720

11.23.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.23.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **678539**
Hayhurst 1720
Project Address: 19-0180-06

Mark Larson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678539. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678539 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C1-14	S	11.19.2020 10:30		678539-001
C1-6	S	11.19.2020 10:40		678539-002
N-SW	S	11.19.2020 10:48		678539-003
C1-3	S	11.19.2020 11:53		678539-004
C1-20	S	11.19.2020 13:19		678539-005
S-SW	S	11.19.2020 13:55		678539-006

CASE NARRATIVE

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Client Name: Larson and Associates, Inc.

Project Name: Hayhurst 1720

Project ID:
Work Order Number(s): *678539*

Report Date: *11.23.2020*
Date Received: *11.20.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3142956 TPH by SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 678539-002.

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id: **C1-14** Matrix: Soil Date Received:11.20.2020 09:06

Lab Sample Id: 678539-001 Date Collected: 11.19.2020 10:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:15 % Moisture:

Seq Number: 3143016 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**183**	50.0	mg/kg	11.20.2020 15:57		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.20.2020 13:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.20.2020 13:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.20.2020 13:55	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.20.2020 13:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	11.20.2020 13:55	
o-Terphenyl	84-15-1	100	%	70-130	11.20.2020 13:55	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**C1-14**	Matrix:	Soil	Date Received:	11.20.2020 09:06
Lab Sample Id:	678539-001	Date Collected:	11.19.2020 10:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.20.2020 13:30	% Moisture:	
Seq Number:	3142926			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.20.2020 19:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.20.2020 19:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.20.2020 19:02	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.20.2020 19:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.20.2020 19:02	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.20.2020 19:02	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.20.2020 19:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	11.20.2020 19:02	
4-Bromofluorobenzene	460-00-4	98	%	70-130	11.20.2020 19:02	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**C1-6**	Matrix:	Soil	Date Received:	11.20.2020 09:06
Lab Sample Id:	678539-002	Date Collected:	11.19.2020 10:40		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.20.2020 13:15	% Moisture:	
Seq Number:	3143016			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**275**	49.9	mg/kg	11.20.2020 16:19		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.20.2020 11:00	% Moisture:	
Seq Number:	3142956			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.20.2020 14:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	**144**	49.9	mg/kg	11.20.2020 14:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.20.2020 14:54	U	1
Total TPH	PHC635	**144.0**	49.90	mg/kg	11.20.2020 14:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	65	%	70-130	11.20.2020 14:54	**
o-Terphenyl	84-15-1	81	%	70-130	11.20.2020 14:54	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**C1-6**	Matrix:	Soil	Date Received:	11.20.2020 09:06
Lab Sample Id:	678539-002	Date Collected:	11.19.2020 10:40		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.20.2020 13:30	% Moisture:	
Seq Number:	3142926			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.20.2020 19:22	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.20.2020 19:22	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.20.2020 19:22	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.20.2020 19:22	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.20.2020 19:22	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.20.2020 19:22	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.20.2020 19:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.20.2020 19:22	
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.20.2020 19:22	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id: **N-SW** Matrix: Soil Date Received:11.20.2020 09:06

Lab Sample Id: 678539-003 Date Collected: 11.19.2020 10:48

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:15 % Moisture:

Seq Number: 3143016 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**230**	50.4	mg/kg	11.20.2020 16:26		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.20.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	**358**	49.9	mg/kg	11.20.2020 15:14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.20.2020 15:14	U	1
Total TPH	PHC635	**358.0**	49.90	mg/kg	11.20.2020 15:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	11.20.2020 15:14	
o-Terphenyl	84-15-1	93	%	70-130	11.20.2020 15:14	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**N-SW**	Matrix:	Soil	Date Received:	11.20.2020 09:06
Lab Sample Id:	678539-003	Date Collected:	11.19.2020 10:48		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.20.2020 13:30	% Moisture:	
Seq Number:	3142926			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.20.2020 19:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.20.2020 19:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.20.2020 19:43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.20.2020 19:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.20.2020 19:43	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.20.2020 19:43	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.20.2020 19:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.20.2020 19:43	
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.20.2020 19:43	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id: **C1-3** Matrix: Soil Date Received:11.20.2020 09:06

Lab Sample Id: 678539-004 Date Collected: 11.19.2020 11:53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:15 % Moisture:

Seq Number: 3143016 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**304**	49.6	mg/kg	11.20.2020 16:34		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.20.2020 15:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	**53.5**	50.0	mg/kg	11.20.2020 15:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.20.2020 15:33	U	1
Total TPH	PHC635	**53.50**	50.00	mg/kg	11.20.2020 15:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	11.20.2020 15:33	
o-Terphenyl	84-15-1	101	%	70-130	11.20.2020 15:33	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**C1-3**	Matrix:	Soil	Date Received:	11.20.2020 09:06
Lab Sample Id:	678539-004	Date Collected:	11.19.2020 11:53		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.20.2020 13:30	% Moisture:	
Seq Number:	3142926			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.20.2020 20:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.20.2020 20:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.20.2020 20:03	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	11.20.2020 20:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.20.2020 20:03	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.20.2020 20:03	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.20.2020 20:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.20.2020 20:03	
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.20.2020 20:03	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id: **C1-20** Matrix: Soil Date Received:11.20.2020 09:06

Lab Sample Id: 678539-005 Date Collected: 11.19.2020 13:19

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:15 % Moisture:

Seq Number: 3143016 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**297**	50.0	mg/kg	11.20.2020 16:41		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.20.2020 15:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.20.2020 15:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.20.2020 15:53	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.20.2020 15:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	11.20.2020 15:53	
o-Terphenyl	84-15-1	104	%	70-130	11.20.2020 15:53	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**C1-20**	Matrix:	Soil	Date Received:	11.20.2020 09:06
Lab Sample Id:	678539-005	Date Collected:	11.19.2020 13:19		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.20.2020 13:30	% Moisture:	
Seq Number:	3142926			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.20.2020 20:24	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.20.2020 20:24	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.20.2020 20:24	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.20.2020 20:24	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.20.2020 20:24	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.20.2020 20:24	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.20.2020 20:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	11.20.2020 20:24	
1,4-Difluorobenzene	540-36-3	95	%	70-130	11.20.2020 20:24	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id: **S-SW** Matrix: Soil Date Received:11.20.2020 09:06

Lab Sample Id: 678539-006 Date Collected: 11.19.2020 13:55

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.20.2020 13:15 % Moisture:

Seq Number: 3143016 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**450**	49.9	mg/kg	11.20.2020 16:49		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.20.2020 11:00 % Moisture:

Seq Number: 3142956 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.20.2020 16:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.20.2020 16:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.20.2020 16:13	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.20.2020 16:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	11.20.2020 16:13	
o-Terphenyl	84-15-1	85	%	70-130	11.20.2020 16:13	

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Certificate of Analytical Results 678539

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**S-SW**	Matrix:	Soil	Date Received:	11.20.2020 09:06
Lab Sample Id:	678539-006	Date Collected:	11.19.2020 13:55		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.20.2020 13:30	% Moisture:	
Seq Number:	3142926			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.20.2020 20:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.20.2020 20:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.20.2020 20:45	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.20.2020 20:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.20.2020 20:45	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.20.2020 20:45	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.20.2020 20:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	11.20.2020 20:45	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.20.2020 20:45	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 678539

Larson and Associates, Inc.

Hayhurst 1720

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143016 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715636-1-BLK — LCS Sample Id: 7715636-1-BKS — LCSD Sample Id: 7715636-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	266	106	265	106	90-110	0	20	mg/kg	11.20.2020 13:30	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143016 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678206-001 — MS Sample Id: 678206-001 S — MSD Sample Id: 678206-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6.28	249	281	110	281	110	90-110	0	20	mg/kg	11.20.2020 15:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143016 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678537-001 — MS Sample Id: 678537-001 S — MSD Sample Id: 678537-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	613	251	849	94	850	94	90-110	0	20	mg/kg	11.20.2020 13:52	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142956 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715688-1-BLK — LCS Sample Id: 7715688-1-BKS — LCSD Sample Id: 7715688-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	853	85	810	81	70-130	5	20	mg/kg	11.20.2020 13:16	
Diesel Range Organics (DRO)	<50.0	1000	848	85	836	84	70-130	1	20	mg/kg	11.20.2020 13:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	72		86		90		70-130	%	11.20.2020 13:16
o-Terphenyl	88		92		95		70-130	%	11.20.2020 13:16

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142956 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715688-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.20.2020 12:56	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 678539

Larson and Associates, Inc.

Hayhurst 1720

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142956 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678539-001 — MS Sample Id: 678539-001 S — MSD Sample Id: 678539-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	933	94	893	89	70-130	4	20	mg/kg	11.20.2020 14:15	
Diesel Range Organics (DRO)	<49.8	996	1020	102	913	91	70-130	11	20	mg/kg	11.20.2020 14:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		88		70-130	%	11.20.2020 14:15
o-Terphenyl	108		94		70-130	%	11.20.2020 14:15

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142926 — Matrix: Solid — Date Prep: 11.20.2020
MB Sample Id: 7715667-1-BLK — LCS Sample Id: 7715667-1-BKS — LCSD Sample Id: 7715667-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0989	99	0.0984	98	70-130	1	35	mg/kg	11.20.2020 16:40	
Toluene	<0.00200	0.100	0.100	100	0.0972	97	70-130	3	35	mg/kg	11.20.2020 16:40	
Ethylbenzene	<0.00200	0.100	0.0976	98	0.0966	97	70-130	1	35	mg/kg	11.20.2020 16:40	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.201	101	70-130	1	35	mg/kg	11.20.2020 16:40	
o-Xylene	<0.00200	0.100	0.0998	100	0.0994	99	70-130	0	35	mg/kg	11.20.2020 16:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	87		99		99		70-130	%	11.20.2020 16:40
4-Bromofluorobenzene	97		104		104		70-130	%	11.20.2020 16:40

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142926 — Matrix: Soil — Date Prep: 11.20.2020
Parent Sample Id: 678539-001 — MS Sample Id: 678539-001 S — MSD Sample Id: 678539-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0933	93	0.0881	87	70-130	6	35	mg/kg	11.20.2020 17:21	
Toluene	<0.00200	0.0998	0.0889	89	0.0858	85	70-130	4	35	mg/kg	11.20.2020 17:21	
Ethylbenzene	<0.00200	0.0998	0.0831	83	0.0797	79	70-130	4	35	mg/kg	11.20.2020 17:21	
m,p-Xylenes	<0.00399	0.200	0.170	85	0.165	82	70-130	3	35	mg/kg	11.20.2020 17:21	
o-Xylene	<0.00200	0.0998	0.0845	85	0.0810	80	70-130	4	35	mg/kg	11.20.2020 17:21	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		101		70-130	%	11.20.2020 17:21
4-Bromofluorobenzene	105		100		70-130	%	11.20.2020 17:21

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

№ 1393

6178539

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/19/20 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Hayhurst 1720

LAI PROJECT #: 19-0180-01 COLLECTOR: DW

TRRP report? ☐ Yes ☒ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE: Time zone/State: MST

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☒ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ☐	SVOC 8270 ☐	PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐	8082 PCBS ☐	8151 HERBICIDES ☐	TBLP - METALS (RCRA) ☐	TCLP VOC ☐	TCLP - PEST ☐ HERB ☐	TOTAL METALS (RCRA) ☐	Semi-VOC ☐	LEAD - TOTAL ☐ OTHER LIST ☐	RCI ☐ TOX ☐ D.W. 200.8 ☐	TDS ☐ TSS ☐ FLASHPOINT ☐	pH ☐ % MOISTURE ☐	EXPLOSIVES ☐ HEXAVALENT CHROMIUM ☐	CHLORIDES ☒ PECHLORATE ☐	ANIONS ☐ ALKALINITY ☐	FIELD NOTES
C'-14		11/19/20	10:30	S	1				X		X			X	X	X																	X			
C'-6			10:40																																	
N-300			11:48																																	
C'-3			11:53																																	
C'-20			13:19																																	
S-300			13:55																																	
TOTAL					6																															

RELINQUISHED BY:(Signature) DATE/TIME 11/20/20 9:06 RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME

NORMAL ☐
1 DAY ☐
2 DAY ☐
OTHER ☒
3 Day

LABORATORY USE ONLY:

RECEIVING TEMP: 3.0/3.5 THERM#: IR8

CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED

☐ CARRIER BILL #

☐ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 11.20.2020 09.06.00 AM

Work Order #: 678539

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.5
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11.20.2020
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 11.20.2020
Holly Taylor

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Certificate of Analysis Summary 679252

Larson and Associates, Inc., Midland, TX

Project Name: Hayhurst 1720

Project Id: 19-0180-06
Contact: Mark Larson
Project Location:

Date Received in Lab: Mon 11.30.2020 15:18
Report Date: 12.02.2020 13:19
Project Manager: Holly Taylor

Analysis Requested								
	Lab Id:	679252-001		679252-002				
	Field Id:	C'-6		N-SW				
	Depth:							
	Matrix:	SOIL		SOIL				
	Sampled:	11.30.2020 13:32		11.30.2020 13:30				
BTEX by EPA 8021B	***Extracted:***	12.01.2020 11:17		12.01.2020 11:17				
	Analyzed:	12.01.2020 17:27		12.01.2020 17:50				
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		<0.00198	0.00198	<0.00200	0.00200			
Toluene		<0.00198	0.00198	<0.00200	0.00200			
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200			
m,p-Xylenes		<0.00397	0.00397	<0.00400	0.00400			
o-Xylene		<0.00198	0.00198	<0.00200	0.00200			
Total Xylenes		<0.001980	0.001980	<0.002000	0.002000			
Total BTEX		<0.001980	0.001980	<0.002000	0.002000			
Chloride by EPA 300	***Extracted:***	12.01.2020 12:40		12.01.2020 12:40				
	Analyzed:	12.01.2020 17:23		12.01.2020 17:28				
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		87.6	50.0	389	50.4			
TPH by SW8015 Mod	***Extracted:***	11.30.2020 17:00		11.30.2020 17:00				
	Analyzed:	12.01.2020 04:49		12.01.2020 05:09				
	Units/RL:	mg/kg	RL	mg/kg	RL			
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.0	50.0			
Diesel Range Organics (DRO)		<50.2	50.2	<50.0	50.0			
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.0	50.0			
Total TPH		<50.20	50.20	<50.00	50.00			

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 679252

for

Larson and Associates, Inc.

Project Manager: Mark Larson

Hayhurst 1720

19-0180-06

12.02.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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12.02.2020

Project Manager: **Mark Larson**
Larson and Associates, Inc.
P. O. Box 50685
Midland, TX 79710

Reference: Eurofins Xenco, LLC Report No(s): **679252**
Hayhurst 1720
Project Address:

Mark Larson :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 679252. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 679252 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 679252

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C'-6	S	11.30.2020 13:32		679252-001
N-SW	S	11.30.2020 13:30		679252-002

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CASE NARRATIVE

Client Name: Larson and Associates, Inc.

Project Name: Hayhurst 1720

Project ID: *19-0180-06*
Work Order Number(s): *679252*

Report Date: *12.02.2020*
Date Received: *11.30.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 679252

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id: **C'-6** Matrix: Soil Date Received:11.30.2020 15:18

Lab Sample Id: 679252-001 Date Collected: 11.30.2020 13:32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 12.01.2020 12:40 % Moisture:

Seq Number: 3143660 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**87.6**	50.0	mg/kg	12.01.2020 17:23		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.30.2020 17:00 % Moisture:

Seq Number: 3143563 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.01.2020 04:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.01.2020 04:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.01.2020 04:49	U	1
Total TPH	PHC635	<50.20	50.20	mg/kg	12.01.2020 04:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	12.01.2020 04:49	
o-Terphenyl	84-15-1	116	%	70-135	12.01.2020 04:49	

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Certificate of Analytical Results 679252

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**C'-6**	Matrix:	Soil	Date Received:	11.30.2020 15:18
Lab Sample Id:	679252-001	Date Collected:	11.30.2020 13:32		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.01.2020 11:17	% Moisture:	
Seq Number:	3143649			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.01.2020 17:27	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.01.2020 17:27	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.01.2020 17:27	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.01.2020 17:27	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.01.2020 17:27	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	12.01.2020 17:27	U	1
Total BTEX		<0.001980	0.001980	mg/kg	12.01.2020 17:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.01.2020 17:27	
4-Bromofluorobenzene	460-00-4	113	%	70-130	12.01.2020 17:27	

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Certificate of Analytical Results 679252

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id: **N-SW** Matrix: Soil Date Received:11.30.2020 15:18

Lab Sample Id: 679252-002 Date Collected: 11.30.2020 13:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB Date Prep: 12.01.2020 12:40 % Moisture:

Seq Number: 3143660 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**389**	50.4	mg/kg	12.01.2020 17:28		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.30.2020 17:00 % Moisture:

Seq Number: 3143563 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.01.2020 05:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.01.2020 05:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.01.2020 05:09	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.01.2020 05:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.01.2020 05:09	
o-Terphenyl	84-15-1	110	%	70-135	12.01.2020 05:09	

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Certificate of Analytical Results 679252

Larson and Associates, Inc., Midland, TX

Hayhurst 1720

Sample Id:	**N-SW**	Matrix:	Soil	Date Received:	11.30.2020 15:18
Lab Sample Id:	679252-002	Date Collected:	11.30.2020 13:30		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.01.2020 11:17	% Moisture:	
Seq Number:	3143649			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.01.2020 17:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.01.2020 17:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.01.2020 17:50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.01.2020 17:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.01.2020 17:50	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.01.2020 17:50	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.01.2020 17:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.01.2020 17:50	
4-Bromofluorobenzene	460-00-4	113	%	70-130	12.01.2020 17:50	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 679252

Larson and Associates, Inc.

Hayhurst 1720

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143660 — Matrix: Solid — Date Prep: 12.01.2020
MB Sample Id: 7716174-1-BLK — LCS Sample Id: 7716174-1-BKS — LCSD Sample Id: 7716174-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	241	96	239	96	90-110	1	20	mg/kg	12.01.2020 16:14	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143660 — Matrix: Soil — Date Prep: 12.01.2020
Parent Sample Id: 679158-041 — MS Sample Id: 679158-041 S — MSD Sample Id: 679158-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	306	200	493	94	485	90	90-110	2	20	mg/kg	12.01.2020 16:31	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143660 — Matrix: Soil — Date Prep: 12.01.2020
Parent Sample Id: 679266-002 — MS Sample Id: 679266-002 S — MSD Sample Id: 679266-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	58.9	200	255	98	248	94	90-110	3	20	mg/kg	12.01.2020 17:44	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143563 — Matrix: Solid — Date Prep: 11.30.2020
MB Sample Id: 7716127-1-BLK — LCS Sample Id: 7716127-1-BKS — LCSD Sample Id: 7716127-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1010	101	70-135	4	35	mg/kg	12.01.2020 02:28	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	1200	120	70-135	4	35	mg/kg	12.01.2020 02:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		113		128		70-135	%	12.01.2020 02:28
o-Terphenyl	110		122		120		70-135	%	12.01.2020 02:28

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143563 — Matrix: Solid — Date Prep: 11.30.2020
MB Sample Id: 7716127-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.01.2020 02:08	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 679252

Larson and Associates, Inc.

Hayhurst 1720

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143563 — Matrix: Soil — Date Prep: 11.30.2020
Parent Sample Id: 679040-003 — MS Sample Id: 679040-003 S — MSD Sample Id: 679040-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1110	111	1070	106	70-135	4	35	mg/kg	12.01.2020 03:29	
Diesel Range Organics (DRO)	<49.9	997	1080	108	991	98	70-135	9	35	mg/kg	12.01.2020 03:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		103		70-135	%	12.01.2020 03:29
o-Terphenyl	100		108		70-135	%	12.01.2020 03:29

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143649 — Matrix: Solid — Date Prep: 12.01.2020
MB Sample Id: 7716203-1-BLK — LCS Sample Id: 7716203-1-BKS — LCSD Sample Id: 7716203-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0953	95	0.0933	93	70-130	2	35	mg/kg	12.01.2020 12:46	
Toluene	<0.00200	0.100	0.0921	92	0.0885	89	70-130	4	35	mg/kg	12.01.2020 12:46	
Ethylbenzene	<0.00200	0.100	0.0950	95	0.0910	91	71-129	4	35	mg/kg	12.01.2020 12:46	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.189	95	70-135	4	35	mg/kg	12.01.2020 12:46	
o-Xylene	<0.00200	0.100	0.0984	98	0.0939	94	71-133	5	35	mg/kg	12.01.2020 12:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		97		100		70-130	%	12.01.2020 12:46
4-Bromofluorobenzene	115		109		107		70-130	%	12.01.2020 12:46

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3143649 — Matrix: Soil — Date Prep: 12.01.2020
Parent Sample Id: 679158-041 — MS Sample Id: 679158-041 S — MSD Sample Id: 679158-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	12.01.2020 13:31	
Toluene	<0.00200	0.100	0.0999	100	0.0935	94	70-130	7	35	mg/kg	12.01.2020 13:31	
Ethylbenzene	<0.00200	0.100	0.102	102	0.0992	99	71-129	3	35	mg/kg	12.01.2020 13:31	
m,p-Xylenes	<0.00401	0.200	0.211	106	0.201	100	70-135	5	35	mg/kg	12.01.2020 13:31	
o-Xylene	<0.00200	0.100	0.104	104	0.0974	97	71-133	7	35	mg/kg	12.01.2020 13:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		97		70-130	%	12.01.2020 13:31
4-Bromofluorobenzene	116		110		70-130	%	12.01.2020 13:31

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

679252 №1428

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Data Reported to:

DATE: 11/30/20 PAGE 1 OF 1

PO#: LAB WORK ORDER#:

PROJECT LOCATION OR NAME: Hayhurst 1720

LAI PROJECT #: 19-0180-06 COLLECTOR: TJ

TRRP report? ☐ Yes ☒ No

TIME ZONE: Time zone/State: MST

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ❑ NaOH ❑	ICE	UNPRESSERVED	ANALYSES: BTEX ☒ MTBE ❑	TRPH 418.1 ❑	TPH 1005 ❑ TPH 1006 ❑	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒	OIL - MOD 8015 ☒	VOC 8260 ❑	SVOC 8270 ❑	PAH 8270 ❑ HOLDPAH ❑	8081 PESTICIDES ❑	8082 PCBS ❑	8151 HERBICIDES ❑	TBLP - METALS (RCRA) ❑	TCLP - PEST ❑ HERB ❑	TCLP VOC ❑	TOTAL METALS (RCRA) ❑ Semi-VOC ❑	LEAD - TOTAL ❑ D.W. 200.8 ❑	RCI ❑ TOX ❑	TDS ❑ TSS ❑	pH ❑	OTHER LIST ❑	TCLP ❑	FLASHPOINT ❑	% MOISTURE ❑	HEXAVALENT CHROMIUM ❑	CYANIDE ❑	EXPLOSIVES ❑	PECHLORATE ❑	CHLORIDE ☒	ANIONS ❑	ALKALINITY ❑	FIELD NOTES
C-6		11/30/20	1332	S	1				X		X		X	X	X																						X			
N-SW		"	1330	"	"				X		X		X	X	X																						X			

TOTAL 2

RELINQUISHED BY:(Signature) Trent Dyson	DATE/TIME 11/30/20	RECEIVED BY: (Signature) Cloe Cuddie 11.30.20 1518
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY:(Signature)	DATE/TIME	RECEIVED BY: (Signature)

LABORATORY: Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ❑
2 DAY ❑
OTHER ❑

LABORATORY USE ONLY:
RECEIVING TEMP: 1.4/1.2 THERM#: TNM-007
CUSTODY SEALS - ❑ BROKEN ❑ INTACT ❑ NOT USED
❑ CARRIER BILL #
❑ HAND DELIVERED

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Larson and Associates, Inc.

Date/ Time Received: 11.30.2020 03.18.00 PM

Work Order #: 679252

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 11.30.2020

Checklist reviewed by: Holly Taylor Date: 12.01.2020

Holly Taylor

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 13577

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CHEVRON U S A INC	6301 Deauville Blvd	Midland, TX79706	4323	13577	C-141

OCD Reviewer	Condition
ceads	None