



DELINEATION WORKPLAN

CHEVRON – LENTINI 12 FEDERAL #019

(Leak Date: 11/23/18)

RP # 2RP-5108

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-5108.

The following information includes:

1. Appropriate completed and signed C-141 pages.
2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
3. GPS information for sample points and sample methodology.
4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results, and/or copy of Chevron groundwater trend map).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

Chevron will excavate the spill area as depicted on the following site diagram. The leak area near SP1 and SP3 (GREEN shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP2 (YELLOW shade on diagram) will be excavated to a depth of 1 foot.

Bottom confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 170 cubic yards. The remediation will be completed within 90 days of approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Incident ID	
District RP	2RP-5108
Facility ID	
Application ID	

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?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.*

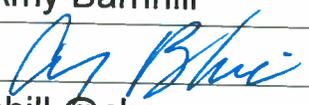
- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the 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.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5108
Facility ID	
Application ID	

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: Waste & Water Specialist
 Signature:  Date: 2-25-19
 email: ABarnhill@chevron.com Telephone: (432)687-7108

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-5108
Facility ID	
Application ID	

Remediation Plan

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

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table I specifications subject to 19.15.29.12(C)(4) NMAC
- 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: Waste & Water Specialist
 Signature:  Date: 2-25-19
 email: ABarnhill@chevron.com Telephone: (432) 687-7108

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

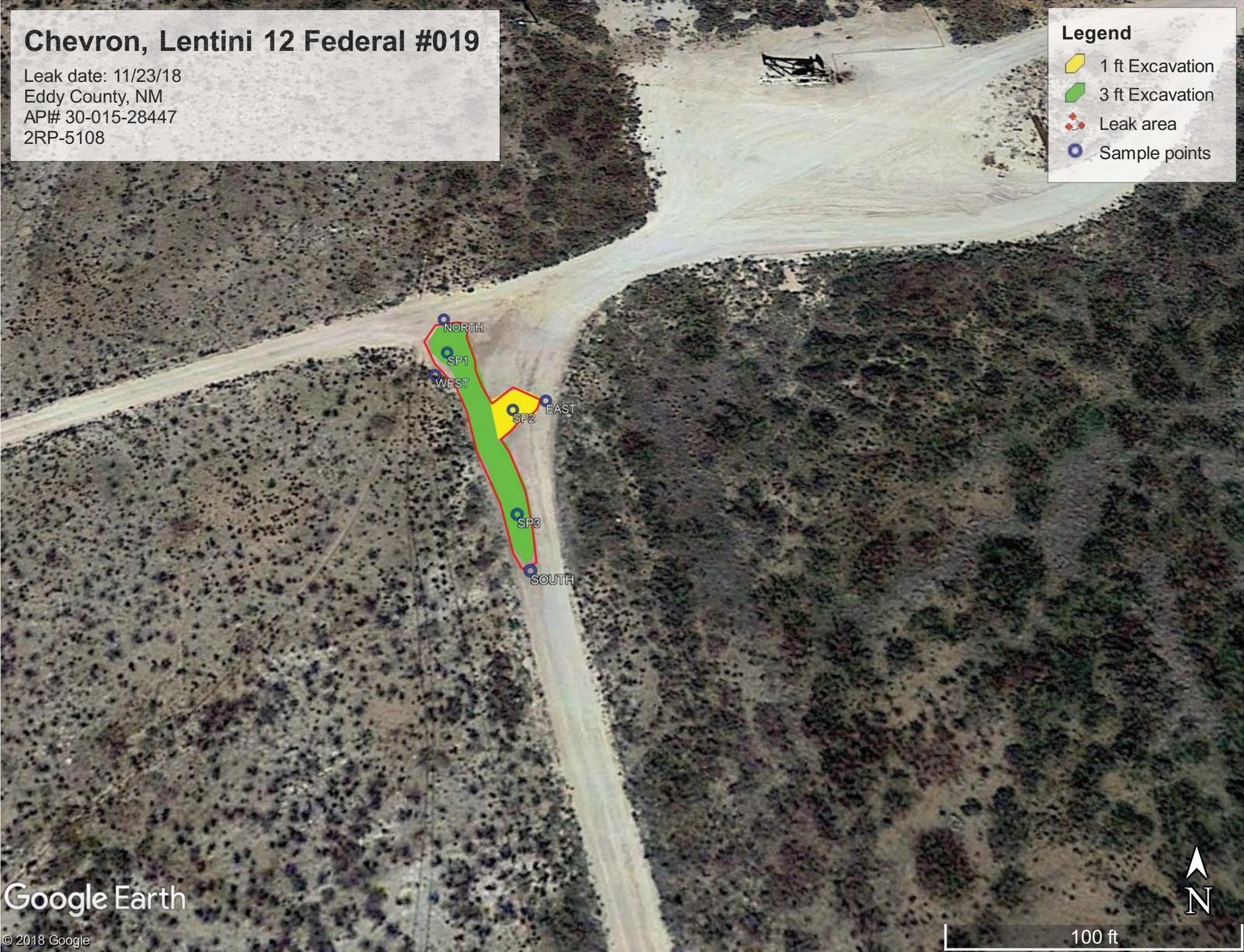
Signature: _____ Date: _____

Chevron, Lentini 12 Federal #019

Leak date: 11/23/18
Eddy County, NM
API# 30-015-28447
2RP-5108

Legend

-  1 ft Excavation
-  3 ft Excavation
-  Leak area
-  Sample points



Chevron, Lentini 12 Federal #019

Sample points

SP1, N 32.33324 W-104.04422

SP2, N 32.33316 W-104.04413

SP3, N 32.33302 W-104.04412

NORTH, N 32.33329 W-104.04423

SOUTH, N 32.33295 W-103.04410

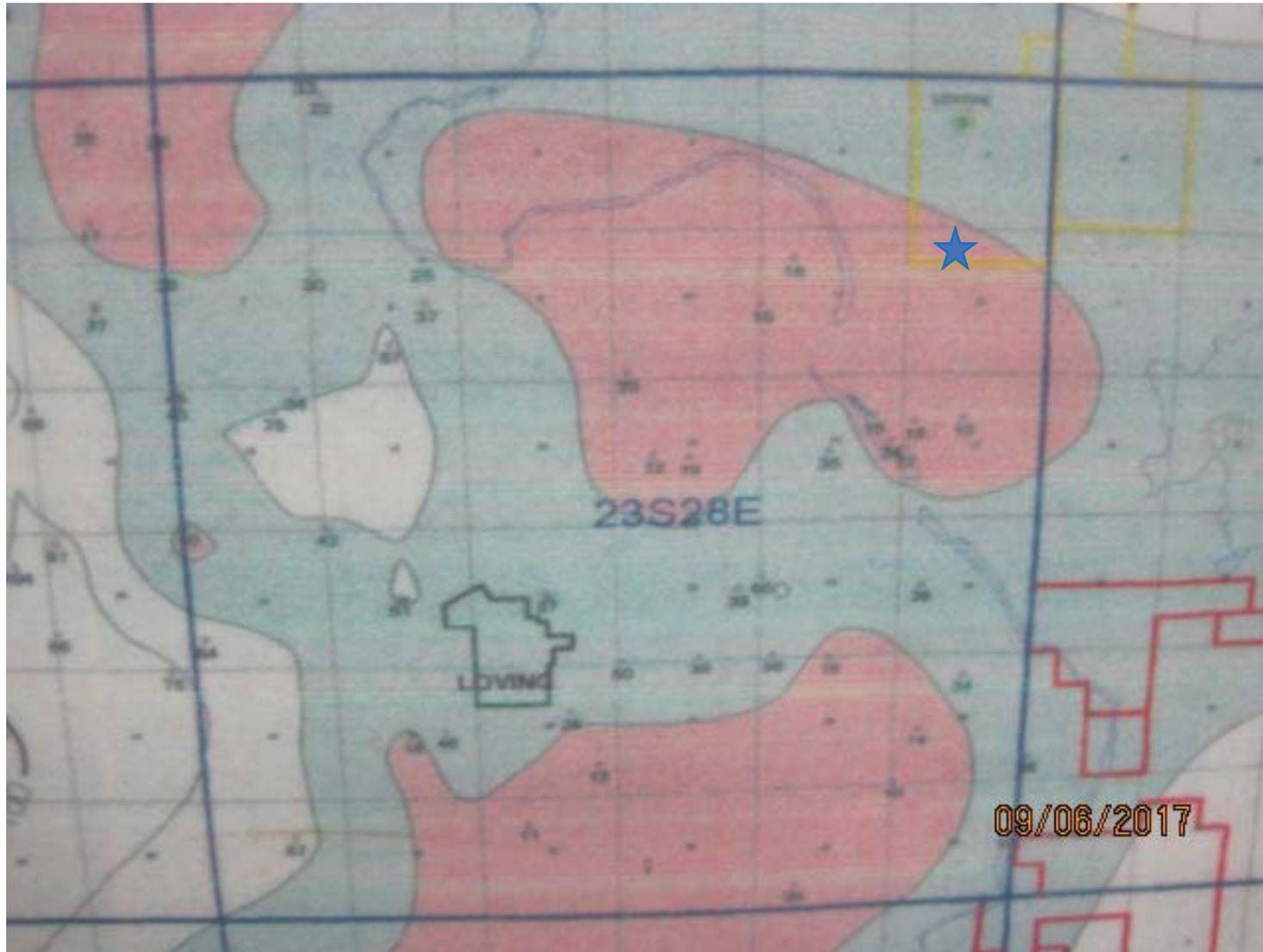
EAST, N 32.33317 W-104.04408

WEST, N 32.33321 W-104.04424

Chevron, Lentini 12 Federal #019

U/L C, Section 12, T23S, R28E

Groundwater: <50'





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 Contact USGS
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National Water Information System: Web Interface

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Data Category: Geographic Area:

Click to hide News Bulletins

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 321911104035001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321911104035001 23S.28E.11.311111

Eddy County, New Mexico
 Latitude 32°19'11", Longitude 104°03'50" NAD27
 Land-surface elevation 2,990 feet above NAVD88
 The depth of the well is 95 feet below land surface.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1947-02-07		D	15.70			2		U		

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

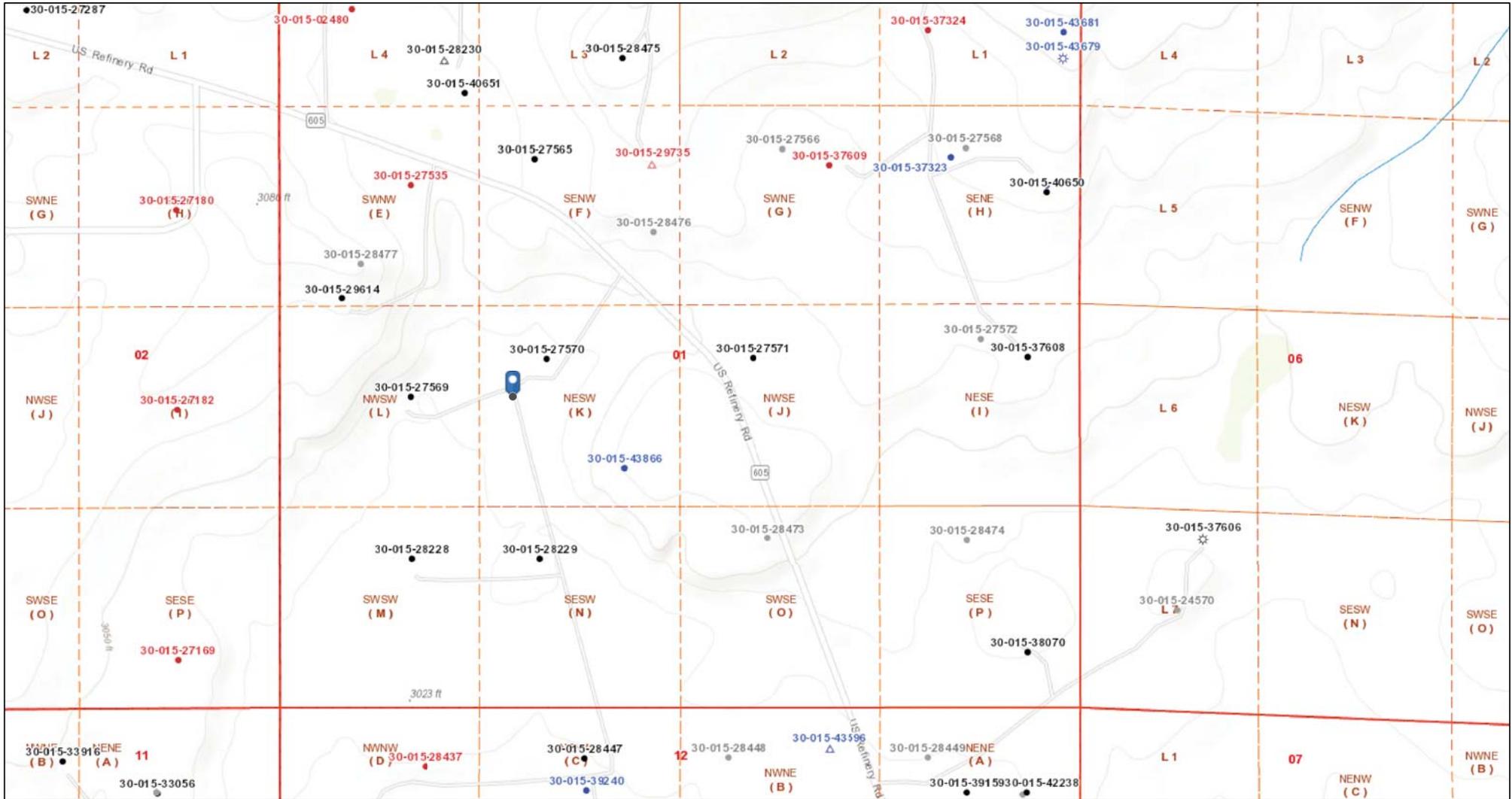


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2019-02-13 13:48:02 EST

4.55 0.42 nadww01

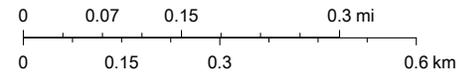
Lentini 12 Federal #019



2/13/2019 11:25:00 AM

1:9,028

- | | | | | | |
|-------------------------|------------------------------|---------------------------------|------------------------------------|-----------------------------------|--|
| ● Active | ● Miscellaneous | ☆ Gas Active | ○ Injection, Cancelled | ● Oil, New | △ Salt Water Injection, Plugged |
| ● New | ☆ CO2 Active | ☆ Gas, Cancelled, Never Drilled | ○ Injection, New | ● Oil, Plugged | △ Salt Water Injection Temporarily Abandoned |
| ● Plugged | ☆ CO2 Cancelled | ☆ Gas, New | ○ Injection, Plugged | ● Oil, Temporarily Abandoned | ● Water, Active |
| ● Cancelled | ☆ CO2 New | ☆ Gas, Plugged | ○ Injection, Temporarily Abandoned | △ Salt Water Injection, Active | ● Water, Cancelled |
| ● Temporarily Abandoned | ☆ CO2, Plugged | ☆ Gas, Temporarily Abandoned | ● Oil, Active | △ Salt Water Injection, Cancelled | ● Water, New |
| | ☆ CO2, Temporarily Abandoned | ○ Injection, Active | ● Oil, Cancelled | △ Salt Water Injection, New | ● Water, Plugged |



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, OCD, BLM

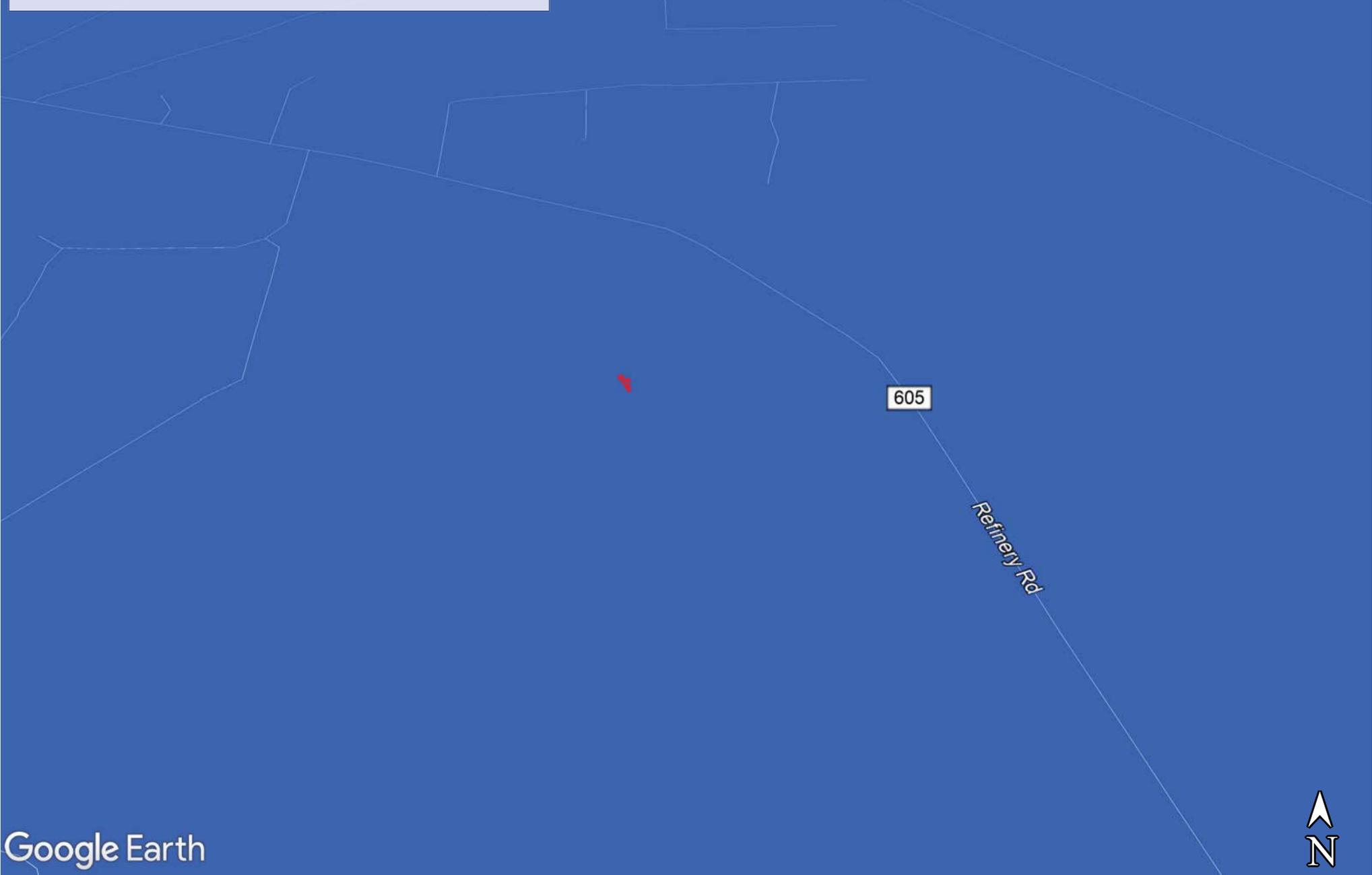
Chevron, Lentini 12 Federal #019

Leak date: 11/23/18
Eddy County, NM
AP# 30-015-28447

BLM CAVE KARST MAP

Legend

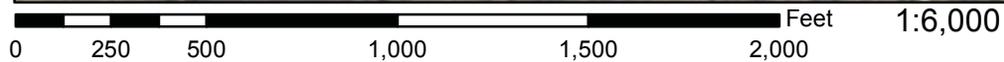
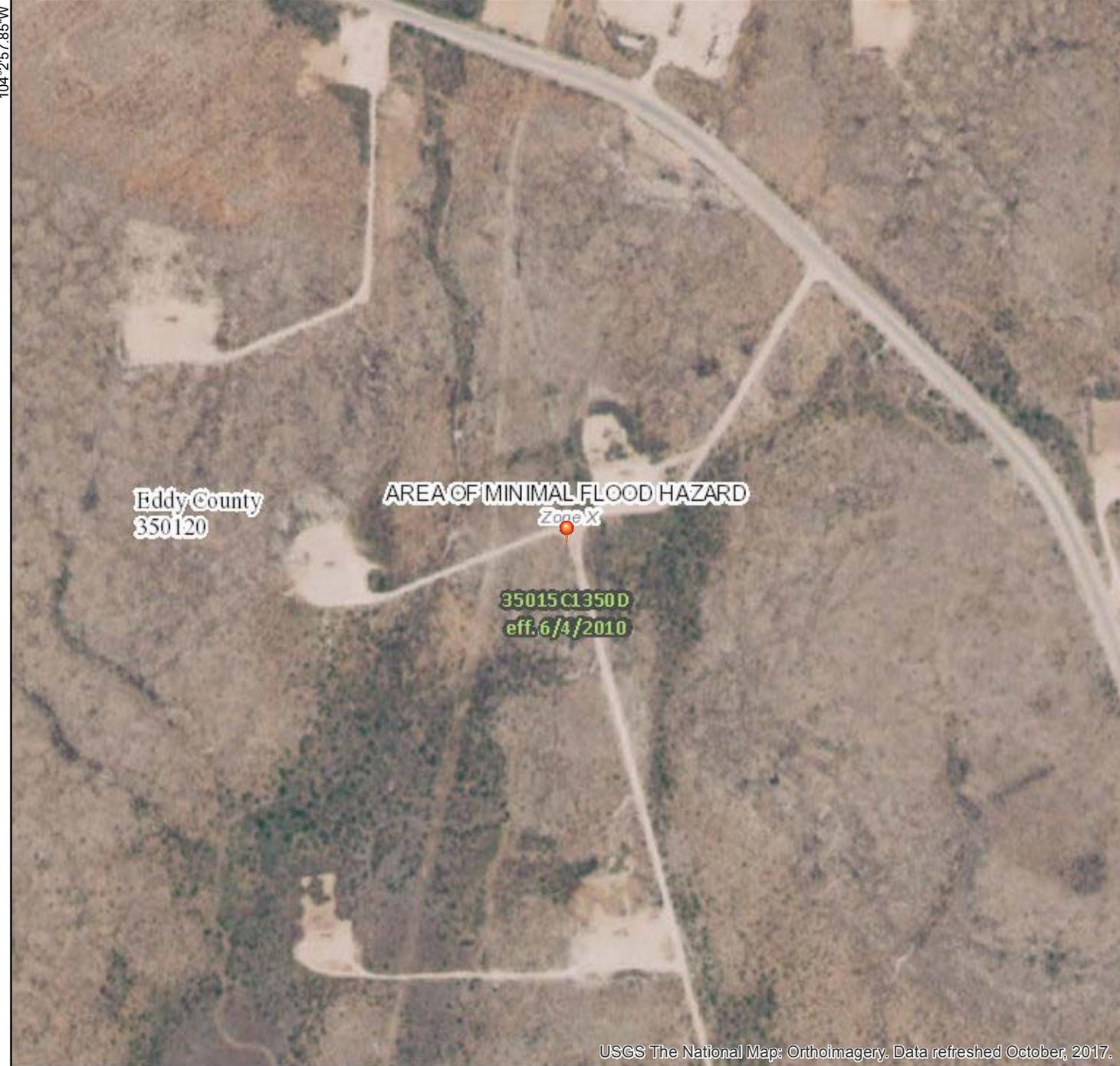
-  LEAK AREA
-  Medium potential



National Flood Hazard Layer FIRMMette



32°20'14.90"N



USGS The National Map: Orthoimagery. Data refreshed October, 2017.

32°19'44.50"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/13/2019 at 2:27:02 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

104°2'20.39"W

Laboratory Analytical Results Summary
Lentini 12 Federal #19 (11/23/18)

Analyte	Method	Sample ID	SP1 @	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 3.5'
			SURFACE				
Date			2/14/19	2/14/19	2/14/19	2/14/19	2/14/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		52800	8000	608	304	336
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		22.7	54.9	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	18.1	<10.0	<10.0	<10.0

Analyte	Method	Sample ID	SP2 @	SP2 @ 1'	SP2 @ 2'
			SURFACE		
Date			2/14/19	2/14/19	2/14/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		52000	592	288
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		73	<10.0	<10.0
EXT DRO	TPH 8015M		14.9	<10.0	<10.0

Analyte	Method	Sample ID	SP3 @	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 3.5'
			SURFACE				
Date			2/14/19	2/14/19	2/14/19	2/14/19	2/14/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		92000	7330	2480	352	256
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		65.9	41.9	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		16.7	<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample ID	NORTH @	EAST @	WEST @	SOUTH @
			SURFACE	SURFACE	SURFACE	SURFACE
Date			2/14/19	2/14/19	2/14/19	2/14/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	32	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

February 18, 2019

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: LENTINI 12 FEDERAL #19

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ SURFACE (H900622-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	52800	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	162	81.2	200	4.49		
DRO >C10-C28*	22.7	10.0	02/16/2019	ND	164	82.0	200	0.823		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 81.5 % 41-142

Surrogate: 1-Chlorooctadecane 81.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 1' (H900622-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25	
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59	
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59	
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80	
Total BTEX	<0.300	0.300	02/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	02/16/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	162	81.2	200	4.49	
DRO >C10-C28*	54.9	10.0	02/16/2019	ND	164	82.0	200	0.823	
EXT DRO >C28-C36	18.1	10.0	02/16/2019	ND					

Surrogate: 1-Chlorooctane 81.7 % 41-142

Surrogate: 1-Chlorooctadecane 84.4 % 37.6-147

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 2' (H900622-03)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 79.7 % 41-142

Surrogate: 1-Chlorooctadecane 77.4 % 37.6-147

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Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 3' (H900622-04)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25	
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59	
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59	
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80	
Total BTEX	<0.300	0.300	02/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/16/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68	
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND					

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 78.2 % 37.6-147

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Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 3.5' (H900622-05)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ SURFACE (H900622-06)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	52000	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	73.0	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	14.9	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 83.4 % 37.6-147

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Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 1' (H900622-07)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25	
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59	
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59	
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80	
Total BTEX	<0.300	0.300	02/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/16/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68	
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND					

Surrogate: 1-Chlorooctane 75.0 % 41-142

Surrogate: 1-Chlorooctadecane 75.1 % 37.6-147

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Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 2' (H900622-08)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 78.7 % 41-142

Surrogate: 1-Chlorooctadecane 75.6 % 37.6-147

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Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ SURFACE (H900622-09)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	92000	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	65.9	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	16.7	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 78.0 % 41-142

Surrogate: 1-Chlorooctadecane 80.8 % 37.6-147

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Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 1' (H900622-10)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7330	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	41.9	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 79.8 % 37.6-147

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Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 2' (H900622-11)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25	
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59	
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59	
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80	
Total BTEX	<0.300	0.300	02/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	02/16/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68	
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND					

Surrogate: 1-Chlorooctane 78.6 % 41-142

Surrogate: 1-Chlorooctadecane 79.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 3' (H900622-12)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25	
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59	
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59	
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80	
Total BTEX	<0.300	0.300	02/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	02/16/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68	
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND					

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 79.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 3.5' (H900622-13)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 80.3 % 41-142

Surrogate: 1-Chlorooctadecane 79.9 % 37.6-147

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: NORTH @ SURFACE (H900622-14)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 78.2 % 41-142

Surrogate: 1-Chlorooctadecane 77.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: EAST @ SURFACE (H900622-15)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/16/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 70.7 % 41-142

Surrogate: 1-Chlorooctadecane 73.4 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: WEST @ SURFACE (H900622-16)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25	
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59	
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59	
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80	
Total BTEX	<0.300	0.300	02/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/16/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68	
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 78.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/15/2019	Sampling Date:	02/14/2019
Reported:	02/18/2019	Sampling Type:	Soil
Project Name:	LENTINI 12 FEDERAL #19	Sampling Condition:	Cool & Intact
Project Number:	11-23-18	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SOUTH @ SURFACE (H900622-17)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/16/2019	ND	1.96	97.8	2.00	1.25		
Toluene*	<0.050	0.050	02/16/2019	ND	1.85	92.3	2.00	1.59		
Ethylbenzene*	<0.050	0.050	02/16/2019	ND	1.78	88.8	2.00	1.59		
Total Xylenes*	<0.150	0.150	02/16/2019	ND	5.32	88.7	6.00	1.80		
Total BTEX	<0.300	0.300	02/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/16/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/16/2019	ND	180	90.2	200	5.68		
DRO >C10-C28*	<10.0	10.0	02/16/2019	ND	190	95.2	200	6.45		
EXT DRO >C28-C36	<10.0	10.0	02/16/2019	ND						

Surrogate: 1-Chlorooctane 77.0 % 41-142

Surrogate: 1-Chlorooctadecane 75.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report





ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: Cliff Brunson				P.O. #:																											
Address: P.O. Box 805				Company: <i>BBC</i>																											
City: Hobbs		State: NM Zip: 88241		Attn:																											
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																											
Project #:		Project Owner:		City:																											
Project Name: Lentini 12 Federal #19 - 11-23-18				State: Zip:																											
Project Location:				Phone #:																											
Sampler Name: Jeff Ornelas				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.	Sample I.D.	G/RAB OR (C)OMP.	# CONTAINERS	MATRIX																PRESERV.			SAMPLING		DATE	TIME	BTX	TPH Ext	CI		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :																			
<i>148900622</i>																															
<i>11</i>	SP3 @ 2'	<i>G</i>	<i>1</i>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>			2-14-19	2:15 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<i>12</i>	SP3 @ 3'													2-14-19	2:31 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<i>13</i>	SP3 @ 3.5'													2-14-19	3:15 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<i>14</i>	NORTH @ SURFACE													2-14-19	3:19 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<i>15</i>	EAST @ SURFACE													2-14-19	3:25 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<i>16</i>	WEST @ SURFACE													2-14-19	3:30 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
<i>17</i>	SOUTH @ SURFACE													2-14-19	3:33 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													

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Relinquished By: <i>Jeff Ornelas</i>		Date: <i>2-15-19</i>	Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>10:00</i>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Chris Z</i>		Date: <i>2-15-19</i>	Received By: <i>Jamara Oldaker</i>		<i>RUSH!</i>	
		Time: <i>14:30</i>				
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		
Sampler - UPS - Bus - Other: <i>-5.6i #97</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <i>JO</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476