

District I
1625 N. French Dr., Hobbs, NM 88240
District II
301 W. Grand Avenue, Artesia, NM 88210
District III
0 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBS OCD

AUG 25 2014

Form C-141
Revised October 10, 2003

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Linn Operating	Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: MGU 95 Satellite trunk line (MGU 91)	Facility Type: Satellite
Surface Owner: Federal	Mineral Owner:
API No.: Closest well 3002533358	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	03	17S	32E	1402	South	1449	West	Lea

Latitude: 32.8602098541135 Longitude: -103.7582102834

NATURE OF RELEASE

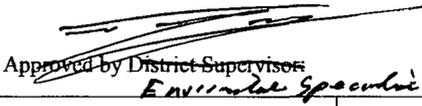
Type of Release: Oil	Volume of Release: 20 gallons	Volume Recovered: 0
Source of Release: Poly pipeline	Date and Hour of Occurrence: 06/18/2014	Date and Hour of Discovery: 06/18/2014 2:30pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jennifer Van Curen- BLM	
By Whom? Brian Wall	Date and Hour 06/19/14 0645	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.:

Describe Cause of Problem and Remedial Action Taken.*: The trunk line for satellite 95 on MGU lease was plugged up hooked up vacuum truck and hot oiler to unplug trunkline and after pumping down trunk line to clear plug out. There was a pin hole in trunkline and while cleaning trunk line up the corrosion and scale where the pin hole was cleaned up also. And started leaking and leak was so small the pressure was unnoticed.

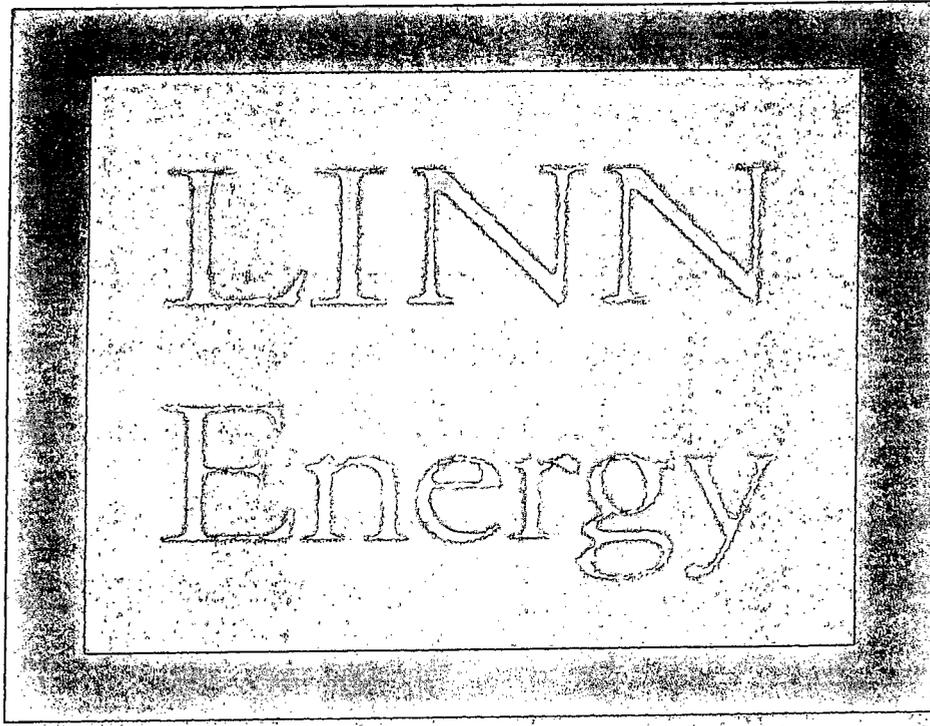
Describe Area Affected and Cleanup Action Taken.* : hole was on top of flowline and caused a spray 50' x 100' the leak was 200' west of MGU well #91. There was no fluid that could be picked up.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Brian Wall	Approved by District Supervisor: 	
Title: Construction Foreman II	Approval Date: 8-26-14	Expiration Date: 10-27-14
Email Address: bwall@linenergy.com Phone: 806-367-0645	Conditions of Approval: SITE Sople Request Delimitate & structure area as per NMOCD guides. Submit final C-141 by 10-27-14	Attached <input type="checkbox"/> LRP- 3273 09112 269324 1701423 848911 1701423 849100

Attach Additional Sheets If Necessary

AUG 27 2014



Closure Report

Maljamar Grayburg 095 Trunk Line

API # 3002533358



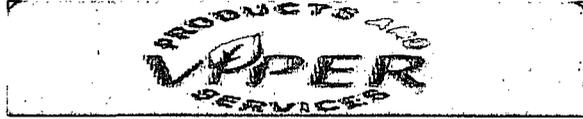


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SECTION ONE

SUMMARY OF ACTIVITIES

The Maljamar Grayburg Satellite 095 site was delineated utilizing 8 sample points. (See Site Map) Deepest contamination of chlorides was located at 4 feet on sample point 2. Attached analytical data confirms sampling activities. No Total Petroleum Hydrocarbons were found at actionable levels below the surface.

A polygon was excavated around Sample Point 2 to a depth of 4 feet. The excavated polygon around Sample Point 4 reached 2'. (See Excavation Plan in Site Map Section)

Sidewall samples were taken in order to ensure no actionable levels of chlorides remained. (See Analytical Section)

Dead vegetation was removed and entire release area was cultivated and sprayed with VREW 9250, an environmentally friendly formulation of digestive enzymes that breaks down and dissolves oil and grease. The non-hazardous enzymes perform bio-remediation in-situ, breaking down the hydrocarbons which, in turn, fertilize the soil.

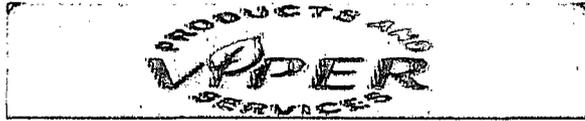
70 cubic yards of clean topsoil was brought in to replace the contaminated soil remediated. The new topsoil was contoured and cultivated to surrounding ground level and seeded with 22 pounds of BLM #2 seed mix. (See Photo section)

Site was seeded on 7/12/2014. (See Seed Ticket)



SECTION TWO

C-141



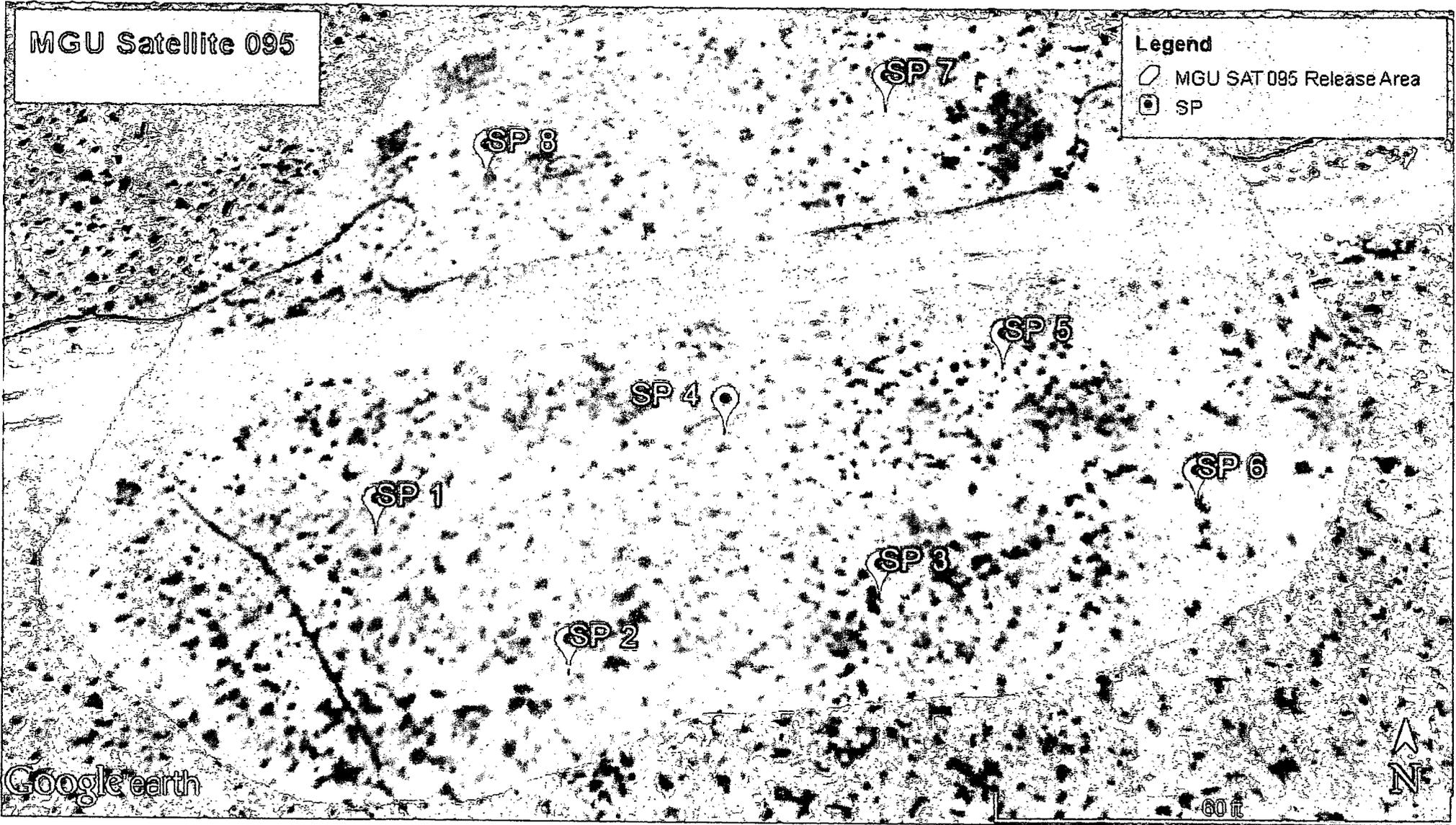
SECTION THREE

SITE MAP

MGU Satellite 095

Legend

- MGU SAT 095 Release Area
- SP



Google earth

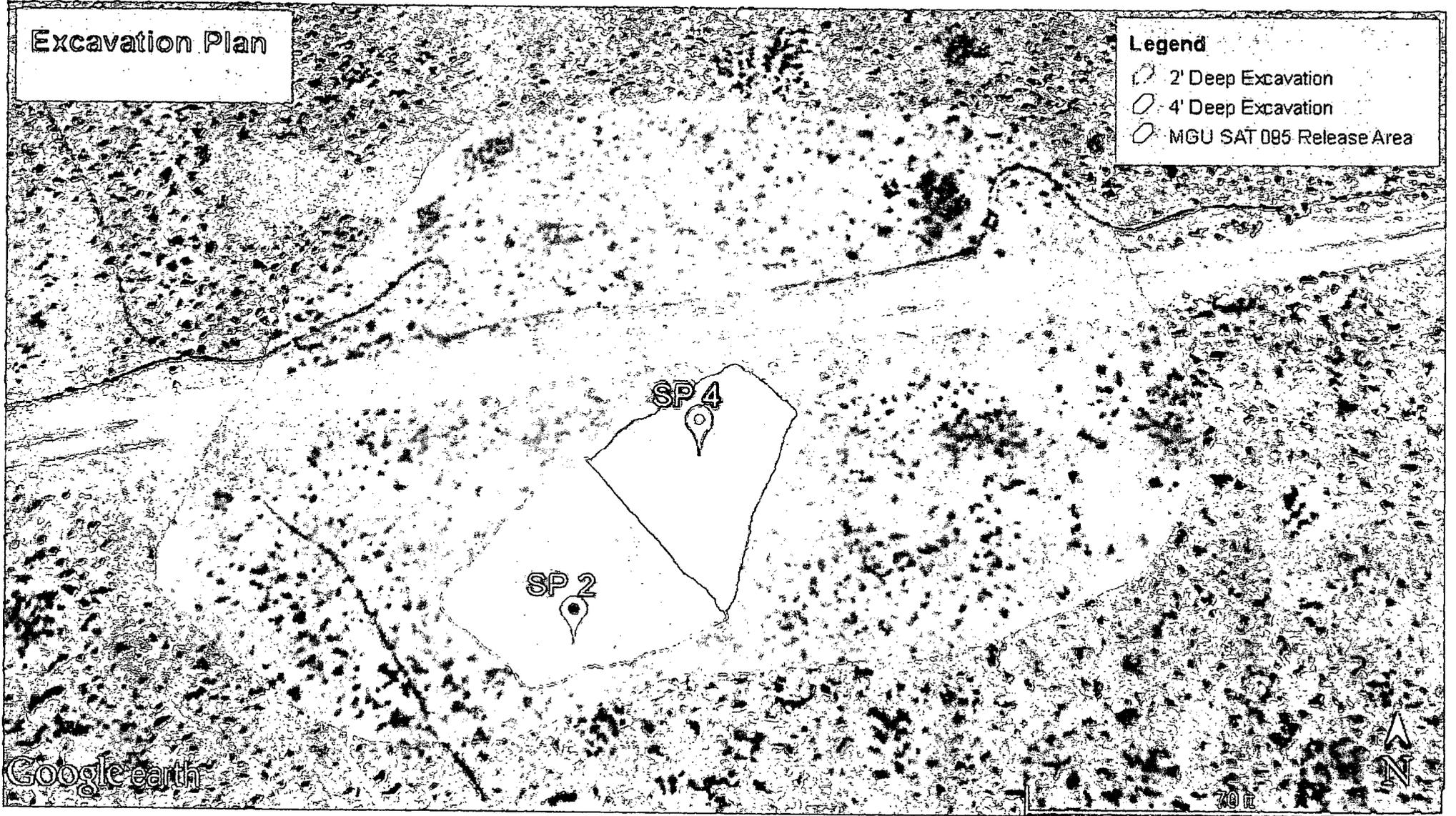
60 ft



Excavation Plan

Legend

-  2' Deep Excavation
-  4' Deep Excavation
-  MGU SAT 085 Release Area



Google earth

70 ft

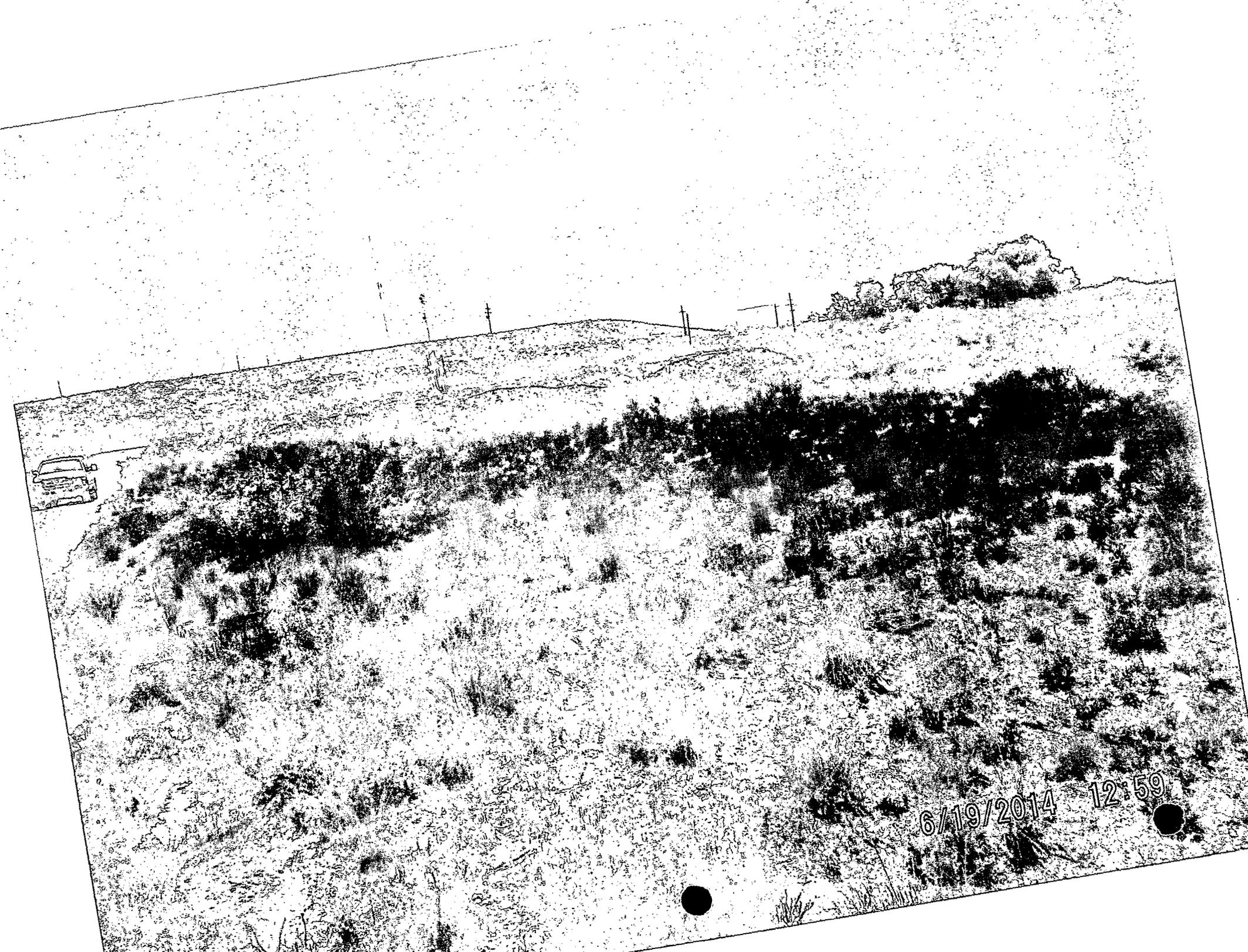


SECTION FOUR

PHOTOS

6/19/2014 12:56

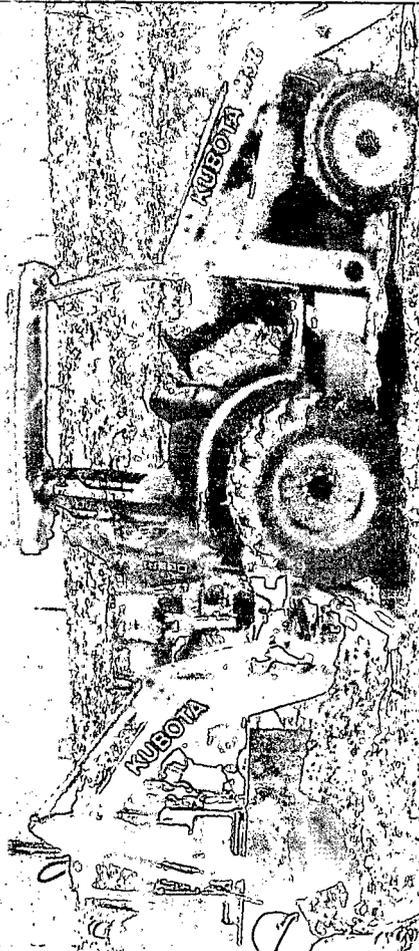




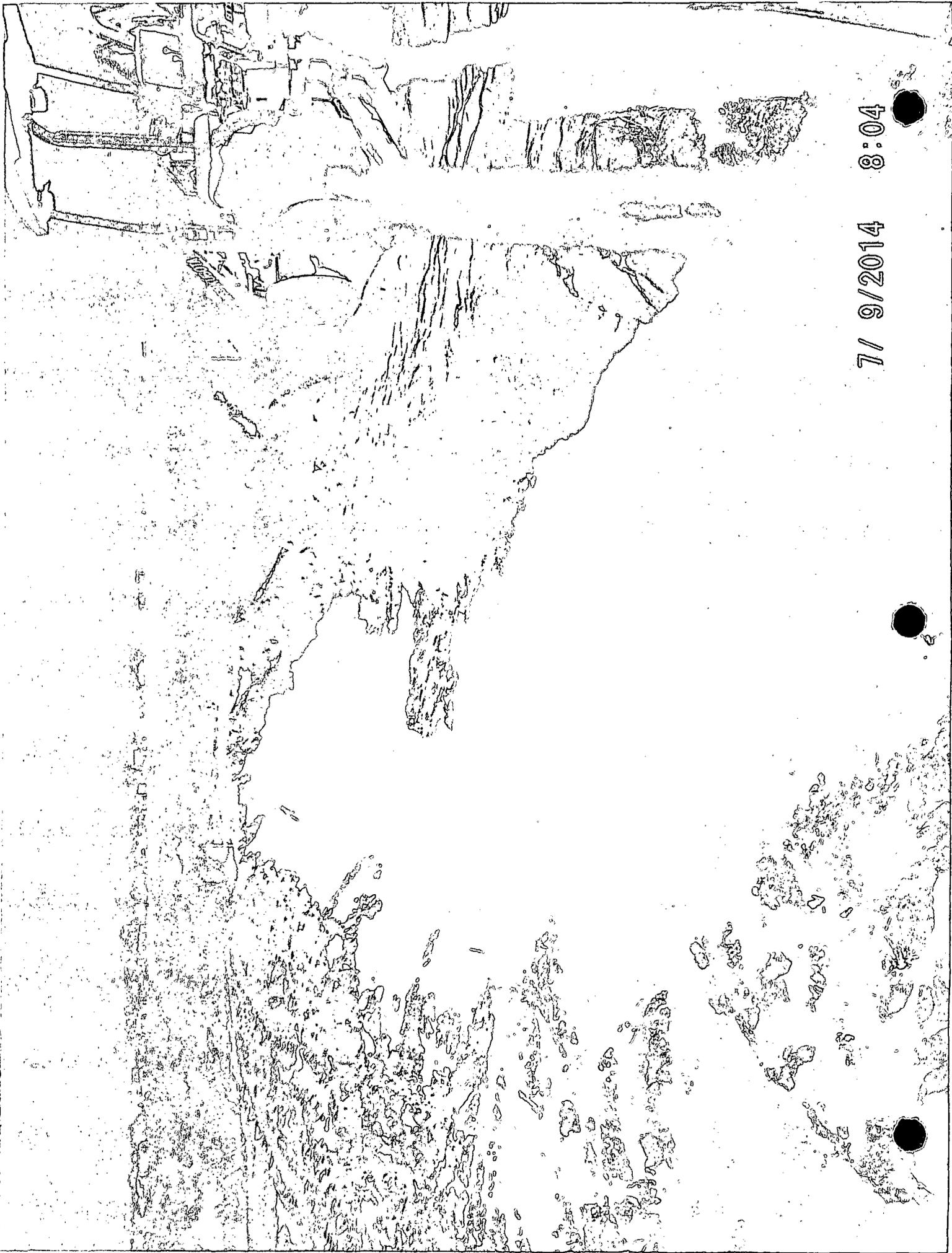
6/19/2014 12:59



71 8/20/14 14:02



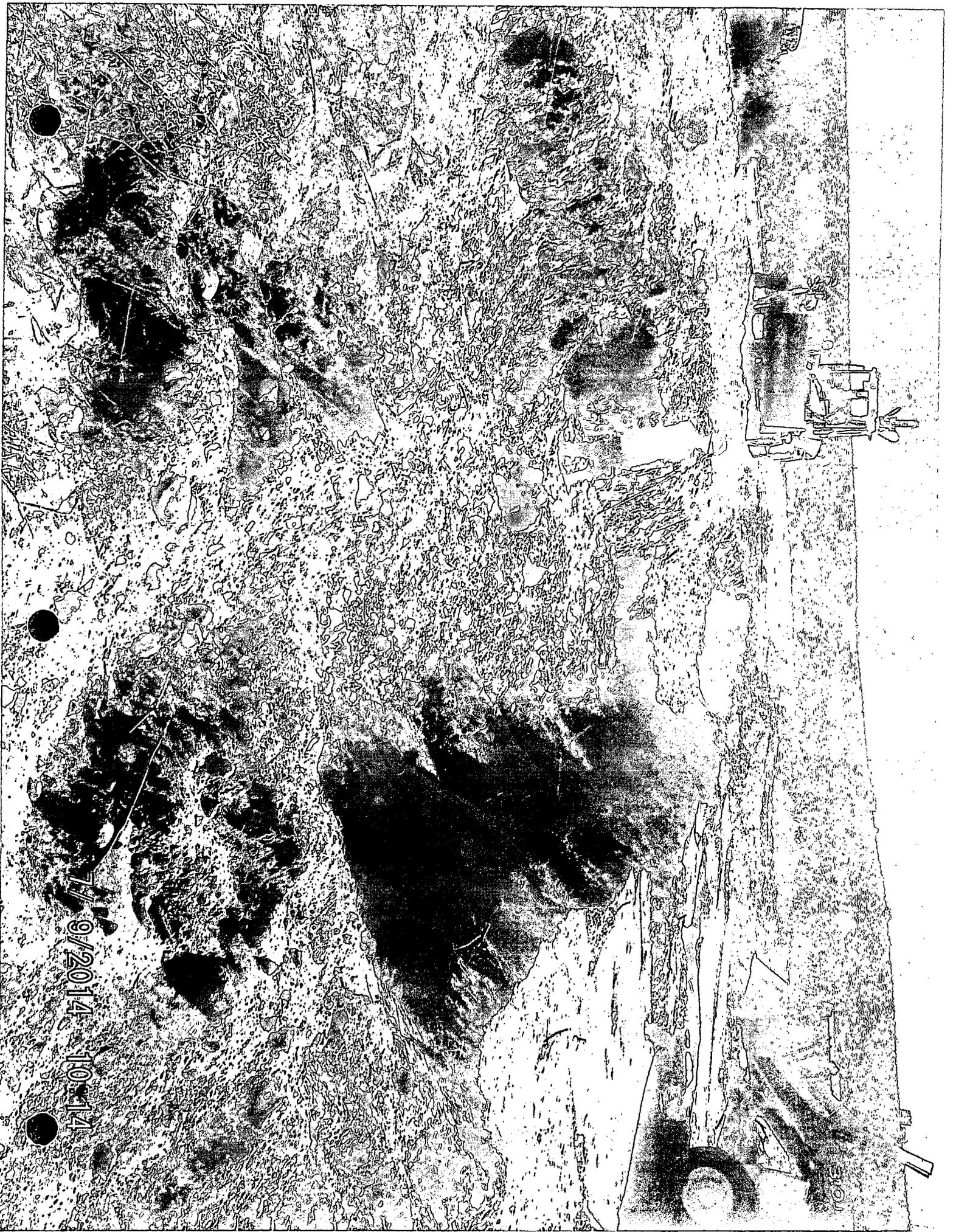
7/ 8/2014 14:02



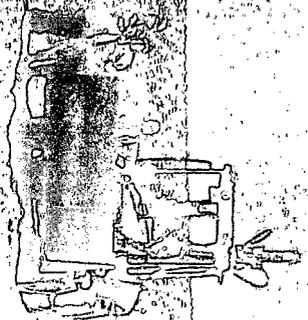
7/ 9/2014 8:04



7/9/2014 10:14

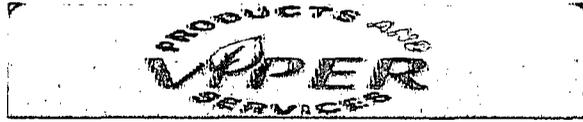


7/9/2014 10:14



7/11/2014 13:06

7/11/2014 18:09



SECTION FIVE

ANALYTICAL LABORATORY REPORTS

PROJECT

MGU Satellite 095

<u>Sample #</u>	<u>Depth/FT</u>	<u>Chlorides-ppm</u>	<u>TPH-ppm</u>
SP1	Surface	96	276
SP1	1	ND	ND
SP2	Surface	4880	7540
SP2	4	64	33.9
SP3	Surface	272	824
SP3	1	16	18.7
SP4	Surface	2280	2340
SP4	2	32	13.3
SP5	Surface	32	38.3
SP5	1	ND	ND
SP6	Surface	48	11.2
SP6	1	ND	ND
SP7	Surface	ND	ND
SP7	1	ND	ND
SP8	Surface	16	ND
SP8	1	ND	ND



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 15, 2014

BRIAN WALL
LINN OPERATING-HOBBS
2130 W. BENDER
HOBBS, NM 88240

RE: MALJAMAR GRAY BURG UNIT SATELLITE #095

Enclosed are the results of analyses for samples received by the laboratory on 07/08/14 16:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	07/08/2014	Sampling Date:	07/08/2014
Reported:	07/15/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SW 1 @ SURFACE 2' (H402078-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/11/2014	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/11/2014	ND	184	92.0	200	1.00		
DRO >C10-C28	10.7	10.0	07/11/2014	ND	198	99.0	200	0.155		

ogate: 1-Chlorooctane 88.3 % 65.2-140
 ogate: 1-Chlorooctadecane 92.2 % 63.6-154

Sample ID: SW 2 @ SURFACE 1' (H402078-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/11/2014	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/11/2014	ND	184	92.0	200	1.00		
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	198	99.0	200	0.155		

Surrogate: 1-Chlorooctane 87.1 % 65.2-140
 Surrogate: 1-Chlorooctadecane 92.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene

Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	07/08/2014	Sampling Date:	07/08/2014
Reported:	07/15/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SW 3 @ SURFACE 1' (H402078-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/11/2014	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/11/2014	ND	184	92.0	200	1.00		
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	198	99.0	200	0.155		
Surrogate: 1-Chlorooctane		93.8 %	65.2-140							
Surrogate: 1-Chlorooctadecane		96.7 %	63.6-154							

Sample ID: SW 4 @ SURFACE 1' (H402078-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/11/2014	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/11/2014	ND	184	92.0	200	1.00		
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	198	99.0	200	0.155		
Surrogate: 1-Chlorooctane		90.5 %	65.2-140							
Surrogate: 1-Chlorooctadecane		93.4 %	63.6-154							

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	07/08/2014	Sampling Date:	07/08/2014
Reported:	07/15/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SW 5 @ SURFACE 2' (H402078-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/11/2014	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/11/2014	ND	184	92.0	200	1.00		
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	198	99.0	200	0.155		

ngate: 1-Chlorooctane	88.8 %	65.2-140
ngate: 1-Chlorooctadecane	92.3 %	63.6-154

Sample ID: SW 6 @ SURFACE 2' (H402078-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/11/2014	ND	400	100	400	7.69		

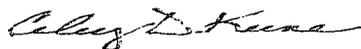
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/11/2014	ND	184	92.0	200	1.00		
DRO >C10-C28	<10.0	10.0	07/11/2014	ND	198	99.0	200	0.155		

Surrogate: 1-Chlorooctane	85.9 %	65.2-140
Surrogate: 1-Chlorooctadecane	90.6 %	63.6-154

Cardinal Laboratories

*=-Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

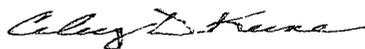
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Viper Products & Services</u>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <u>Fred Ramsey</u>		P.O. #:																								
Address:		Company: <u>LENA</u>																								
City: State: Zip:		Attn: <u>Brian Wall</u>																								
Phone #: Fax #:		Address:																								
Project #: Project Owner:		City:																								
Project Name: <u>Maljamar Grayberg Satellite 095</u>		State: Zip:																								
Project Location:		Phone #:																								
Sampler Name: <u>Rebbie Rannels</u>		Fax #:																								
FOR LAB USE ONLY												TPH	CI-													
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	MATRIX					PRESERV		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME												
H402078																										
1	SW 1 @ surface 2'	6	1			✓				✓	✓		7/8/14	13:20	✓	✓										
2	SW 2 @ surface 1'	6	1			✓				✓	✓		7/8/14	13:29	✓	✓										
3	SW 3 @ surface 1'	6	1			✓				✓	✓		7/8/14	13:44	✓	✓										
4	SW 4 @ surface 1'	6	1			✓				✓	✓		7/8/14	14:02	✓	✓										
5	SW 5 @ surface 2'	6	1			✓				✓	✓		7/8/14	14:30	✓	✓										
6	SW 6 @ surface 2'	6	1			✓				✓	✓		7/8/14	14:48	✓	✓										

PLEASE NOTE: Liability and Damages. Cardinal Laboratory and its clients, exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the requested service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors in any way, or related to the performance of services hereunder by Cardinal, regardless of whether such claim is covered by any of the above stated releases or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>7/8/14</u>	Time: <u>4:07</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Time:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>4.4° #54</u>				REMARKS:	
Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <u>KP</u>			



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

June 30, 2014

BRIAN WALL
LINN OPERATING-HOBBS
2130 W. BENDER
HOBBS, NM 88240

RE: MALJAMAR GRAY BURG UNIT SATELLITE #095

Enclosed are the results of analyses for samples received by the laboratory on 06/24/14 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H401908-01)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.80	89.8	2.00	1.07		
Toluene*	<0.050	0.050	06/27/2014	ND	1.88	94.1	2.00	1.98		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.68	84.0	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.16	86.0	6.00	2.29		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.7 % 89.4-126

de, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	276	10.0	06/26/2014	ND	187	93.5	200	2.09		

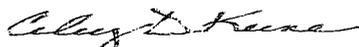
Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H401908-02)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.80	89.8	2.00	1.07		
Toluene*	<0.050	0.050	06/27/2014	ND	1.88	94.1	2.00	1.98		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.68	84.0	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.16	86.0	6.00	2.29		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.8 % 89.4-126

de, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	187	93.5	200	2.09		

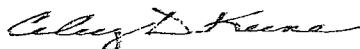
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H401908-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.80	89.8	2.00	1.07		
Toluene*	<0.050	0.050	06/27/2014	ND	1.88	94.1	2.00	1.98		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.68	84.0	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.16	86.0	6.00	2.29		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.2 % 89.4-126

de, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	06/27/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<100	100	06/26/2014	ND	162	81.0	200	1.55			
DRO >C10-C28	7540	100	06/26/2014	ND	187	93.5	200	2.09			

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 277 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 4' (H401908-04)

BTEX 8021B	mg/kg	Analyzed By: CK								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.80	89.8	2.00	1.07		
Toluene*	<0.050	0.050	06/27/2014	ND	1.88	94.1	2.00	1.98		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.68	84.0	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.16	86.0	6.00	2.29		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 96.0 % 89.4-126

de, SM4500Cl-B	mg/kg	Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	33.9	10.0	06/26/2014	ND	187	93.5	200	2.09		

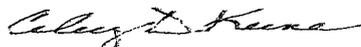
Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager



Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H401908-05)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.4 % 89.4-126

de, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/27/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	06/26/2014	ND	162	81.0	200	1.55			
DRO >C10-C28	824	10.0	06/26/2014	ND	187	93.5	200	2.09			

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 170 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H401908-06)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 96.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	18.7	10.0	06/26/2014	ND	187	93.5	200	2.09		

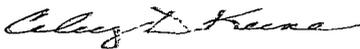
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H401908-07)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.0 % 89.4-126

de, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	06/27/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	06/26/2014	ND	162	81.0	200	1.55			
DRO >C10-C28	2340	50.0	06/26/2014	ND	187	93.5	200	2.09			

Surrogate: 1-Chlorooctane 112 % 65.2-140
 Surrogate: 1-Chlorooctadecane 170 % 63.6-154

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Celestine D. Keene, Lab Director/Quality Manager



Analytical Results For:

LINN OPERATING-HOBBS
BRIAN WALL
2130 W. BENDER
HOBBS NM, 88240
Fax To: (575) 738-1740

Received: 06/24/2014 Sampling Date: 06/24/2014
Reported: 06/30/2014 Sampling Type: Soil
Project Name: MALJAMAR GRAY BURG UNIT SATELLITE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez
Project Location: NOT GIVEN

Sample ID: SP 4 @ 2' (H401908-08)

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include Benzene*, Toluene*, Ethylbenzene*, Total Xylenes*, Total BTEX.

Surrogate: 4-Bromofluorobenzene (PIL) 97.7 % 89.4-126

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Row includes Chloride.

Table with columns: Analyte, Result, Reporting Limit, Analyzed, Method Blank, BS, % Recovery, True Value QC, RPD, Qualifier. Rows include GRO C6-C10, DRO >C10-C28.

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H401908-09)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 96.8 % 89.4-126

de, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	38.3	10.0	06/26/2014	ND	187	93.5	200	2.09		

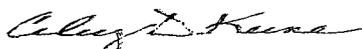
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celestine Keene, Lab Director/Quality Manager



Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H401908-10)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.5 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	187	93.5	200	2.09		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ SURFACE (H401908-11)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.0 % 89.4-126

de, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	11.2	10.0	06/26/2014	ND	187	93.5	200	2.09		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H401908-12)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.0 % 89.4-126

de, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	187	93.5	200	2.09		

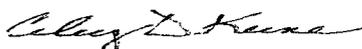
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ SURFACE (H401908-13)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.6 % 89.4-126

de, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	187	93.5	200	2.09		

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celest D. Keene, Lab Director/Quality Manager



Analytical Results For:

LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H401908-14)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 96.7 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	187	93.5	200	2.09		

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ SURFACE (H401908-15)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 97.0 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	162	81.0	200	1.55		
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	187	93.5	200	2.09		

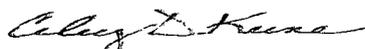
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:

 LINN OPERATING-HOBBS
 BRIAN WALL
 2130 W. BENDER
 HOBBS NM, 88240
 Fax To: (575) 738-1740

Received:	06/24/2014	Sampling Date:	06/24/2014
Reported:	06/30/2014	Sampling Type:	Soil
Project Name:	MALJAMAR GRAY BURG UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 1' (H401908-16)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2014	ND	1.90	95.2	2.00	6.78		
Toluene*	<0.050	0.050	06/27/2014	ND	1.97	98.7	2.00	7.84		
Ethylbenzene*	<0.050	0.050	06/27/2014	ND	1.74	86.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/27/2014	ND	5.36	89.4	6.00	7.95		
Total BTEX	<0.300	0.300	06/27/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 96.3 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/27/2014	ND	416	104	400	3.92		

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	06/26/2014	ND	176	88.0	200	1.55		
DRO >C10-C28	<10.0	10.0	06/26/2014	ND	205	102	200	0.635		

Surrogate: 1-Chlorooctane 79.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

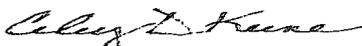
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Viper</u>		BILL TO		ANALYSIS REQUEST																					
Project Manager: <u>Fred Ramsey</u>		P.O. #:																							
Address:		Company: <u>LENA</u>																							
City:	State:	Zip:	Attn: <u>Brin Wall</u>																						
Phone #:	Fax #:		Address:																						
Project #:	Project Owner:		City:																						
Project Name: <u>Malyanar Gray Burg Unit</u>		State:	Zip:																						
Project Location: <u>Satellite 095</u>		Phone #:																							
Sampler Name:		Fax #:																							
<small>FOR LAB USE ONLY</small>																									
Lab I.D.	Sample I.D.	GRAB OR (COMPF.# CONTAINERS	MATRIX													PRESERV.		SAMPLING		DATE	TIME	TPH	CI	BTIX	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:														
<u>4401908</u>	<u>SP1 @ Surface</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>6/24/04</u>	<u>10:42</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>1</u>	<u>SP1 @ Surface</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>10:50</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>2</u>	<u>SP1 @ 1'</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>11:14</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>3</u>	<u>SP2 @ Surface</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>12:12</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>4</u>	<u>SP2 @ 4'</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>11:37</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>5</u>	<u>SP3 @ Surface</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>11:40</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>6</u>	<u>SP3 @ 1'</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>12:02</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>7</u>	<u>SP4 @ Surface</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>12:09</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>8</u>	<u>SP4 @ 2'</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>12:28</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>9</u>	<u>SP5 @ Surface</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<u>12:30</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
<u>10</u>	<u>SP5 @ 1'</u>	<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 23 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 data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated receipts or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>6/24/04</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>7:25</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <u>440c</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>KD</u>		

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Viper		BILL-TO		ANALYSIS REQUEST																					
Project Manager: Fred Ramsey		P.O. #:																							
Address:		Company: LENV																							
City:	State:	Zip:	Attn: Brian Wall																						
Phone #:	Fax #:		Address:																						
Project #:	Project Owner:		City:																						
Project Name: Meljean Grayburg Unit		State:	Zip:																						
Project Location: Satellite 095		Phone #:																							
Sampler Name:		Fax #:																							
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX													PRESERV	SAMPLING		TPH Cl- BTEX						
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE /COOL	OTHER :	DATE	TIME												
H401908																									
11	SP6 @ surface	6			✓			✓		6/24/04	12:57	✓	✓	✓											
12	SP6 @ 1'	6			✓			✓			12:54	✓	✓	✓											
13	SP7 @ surface	6			✓			✓			13:09	✓	✓	✓											
14	SP7 @ 1'	6			✓			✓			13:12	✓	✓	✓											
15	SP8 @ surface	6			✓			✓			13:26	✓	✓	✓											
16	SP8 @ 1'	6			✓			✓			13:29	✓	✓	✓											

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 the client for the 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 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 any persons arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

Relinquished By:	Date: 6/24/04	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Phone #: _____)
Relinquished By: _____	Date: _____	Received By: _____	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Fax #: _____)
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 440	Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (initials) 	REMARKS:

Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

#34



SECTION SIX

SEED TICKET

Bamert Seed Company Inc.

1097 CR 1018, Muleshoe, TX 79347

(806) 262-9892

Permit # TX00905

Bunk's Feed Barn, LFC Sand Shinnery with ragweed mix B-06151-J1E0

Description	Pure Seed	Corn	Dormant	Hard Seed	Origin
Bluestem, Big "Kaw" (<i>Andropogon gerardii</i>)	17.65%	95.00%	0.00%	0.00%	TX
Bluestem, Little "Cimarron" (<i>Schizachyrium scoparium</i>)	7.98%	80.00%	8.00%	0.00%	TX
Bluestem, Sand "Woodward" (<i>Andropogon hallii</i>)	13.80%	95.00%	0.00%	0.00%	TX
Bristlegrass, Plains, "VNS" (<i>Setaria vulpiseta</i>)	14.49%	90.00%	0.00%	0.00%	TX
Coreopsis Plains (<i>Coreopsis tinctoria</i>)	5.39%	97.00%	0.00%	0.00%	TX
Dropseed, Sand, "VNS" (<i>Sporobolus cryptandrus</i>)	2.68%	95.00%	3.00%	0.00%	TX
Fourwing saltbush, "VNS" (<i>Atriplex canescens</i>)	15.59%	52.00%	15.00%	0.00%	NM
Ragweed, Western (<i>Ambrosia L.</i>)	6.79%	9.00%	68.00%	0.00%	KY
Purity: 84.37%		Inert Matter: 9.29%		Other Crop Seed: 6.32%	
				Weed Seed: 0.02%	

Noxious Weeds: None

Test Date: 03/2014

Net Wt: 25.00 lbs