

District I
1625 N French Dr. Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

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

PKJ 1600 745586
4090
Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company	Stephens & Johnson Operating Co.	Contact	Bob Gilmore
Address	P O Box 2249	Telephone No.	940-723-2166
Facility Name	Denton North Wolfcamp Unit	Facility Type	Water Supply Line
Surface Owner	Darr Angel	Mineral Owner Unknown	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	I	T15S	R37E	2890	North	10	West	Lea

Latitude 33° 02' 38.1" N Longitude 103° 09' 33.9" W

NATURE OF RELEASE

Type of Release	Salt Water	Volume of Release	Unknown NA	Volume Recovered	Unknown NA
Source of Release	Salt Water Supply Line	Date and Hour of Occurrence	NA	Date and Hour of Discovery	NA
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Date and Hour				
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 *

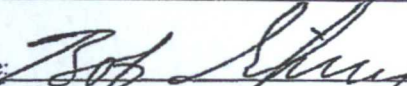
Leak was from water supply line which developed several years ago Leak was repaired and returned to service

Describe Area Affected and Cleanup Action Taken *

SESI environmental consultants determined vertical and horizontal extent of contamination Contaminated soil was dug out and replaced under OCD procedures.

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.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:		
Printed Name: Bob Gilmore	Approval Date:		
Title: Engineer	Expiration Date:		Attached <input type="checkbox"/>
E-mail Address: bgilmore@sjoc.net	Conditions of Approval:		
Date: 5-3-10	Phone: 940-723-2166		

* Attach Additional Sheets If Necessary



P.O. Box 1613
703 E. Clinton Street
Hobbs, New Mexico 88240
575/397-0510
Fax 575/393-4388
www.sesi-nm.com

Safety & Environmental Solutions, Inc.

April 10, 2010

Mr. Larry Johnson
Environmental Engineer
New Mexico Oil Conservation Division
1625 French Drive
Hobbs, New Mexico 88240

Mr. Larry Johnson:

This letter is a request for closure at the Stevens and Johnson South of 82. All the delineation activities completed for the subject area are listed below in chronological order.

Safety & Environmental Solutions, Inc. (SESI) was engaged by Stephens & Johnson Operating Company to perform a site assessment located in Section 1, Township 15 South, and Range 37 East in Lea County, New Mexico. The subject area was impacted by the spillage of an undetermined amount of produced water from an injection line associated with production in the area. The remediation for this site was initiated in September 2003; however, this site has been dormant for several years.

Surface and Groundwater

The nearest groundwater of record with the New Mexico State Engineer's Office is in Section 2 of 15 South, 37 East. According to measurements taken February 18, 1966, the depth to water in this well is 42.09 feet.

Monitor wells installed by SESI at this site have respective depths to water of 71.25' and 71.15'. The groundwater measurements were taken on January 11, 2010.

Soils

The soils in the area are predominantly sand and sandy loam.

Work Performed

September 23, 2003:

Safety and Environmental (SESI) drilled two (2) boreholes. Borehole #1 was drilled to 10 feet and sampled at that depth. The circulation of air was lost in this borehole due to the close proximity to the open excavation immediately to the east of the borehole. Borehole #2 was drilled to 45 feet at which point wet sand was encountered. Samples were retrieved at 5, 15, 25, 35, and 45 feet.

SESI attempted to drill boreholes # 3 and # 4 to the southeast of borehole #2. Both boreholes ended with auger refusal at 3'. No samples were taken from these boreholes.

All samples were properly packaged and preserved and sent under chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA method 4500-Cl⁻B).

The results of the analysis are as follows:

Date	Sample ID	Cl ⁻ (mg/kg)
9/23/03	BH #1 10'	4399
9/23/03	BH #2 5'	2559
9/23/03	BH #2 15'	4399
9/23/03	BH #2 25'	3279
9/23/03	BH #2 35'	2399
9/23/03	BH #2 45'	2303

The elevated chloride level in borehole #2 at 45' indicated probable groundwater impact. It was recommended that a monitor well be installed in the immediate vicinity of borehole # 2 and groundwater samples be analyzed for chloride levels.

January 15, 2004:

SESI installed a monitor well on the site to determine if chloride contamination at the site had impacted the groundwater. It was determined through a Chloride Field Test that the contamination had impacted the water. SESI notified Mr. Larry Johnson and Mr. Ed Martin of the contamination verbally on this date. On January 16, 2004 Borehole # 5 was drilled to the south of the site to determine if the contamination had migrated horizontally from the site. Borehole # 5 was drilled to a depth of 40 feet. Grab samples were retrieved at 5 feet and every 10 feet after. The samples were sent under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-Cl⁻B).

The results of the analysis are as follows:

Date	Sample ID	Cl ⁻ (mg/kg)
1/16/04	BH #5 - 5'	3007
1/16/04	BH #5 - 10'	3599
1/16/04	BH #5 - 30'	1839
1/16/04	BH #5 - 40'	256

January 21, 2004

The monitor well was developed and completed. The well was bailed and a water sample retrieved. The sample was properly preserved and sent under chain of custody to Cardinal Laboratories for analysis. The sample was analyzed for Chlorides (EPA method 4500-Cl⁻B) and BTEX (EPA Method SW-846-8020).

The results of the analysis are as follows:

Date	Sample ID	Cl ⁻ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
1/21/04	MW-#1 Water	2120	<0.002	<0.002	<0.002	<0.006

The results of the groundwater sample indicated that the contamination had impacted the ground water at the location of the well bore of MW # 1. The results of the soil samples in Borehole #5 show that the contamination has migrated to a depth between 30' and 40' in the vadose zone at the location of Borehole # 5. This indicated that the area between Borehole # 2, MW # 1 and Borehole 5 may have been impacted by chloride migration to depths of 30' to 40'.

It was recommended that an additional monitor well be installed in the area of Boreholes # 3, 4, and 5 to determine the extent of groundwater contamination down-gradient of the leak site. An appropriate action plan for this site will be submitted upon review of the results of the installation of this monitor well. In addition, it was recommended that the excavation be backfilled, properly compacted and returned to original grade. The original Work Plan dated May 8, 2003 was followed regarding the top 4' to 5' of the surface soils.

April 28, 2006:

SESI was onsite to retrieve samples and map the excavation at the South of 82 Site. The excavation measures approximately 1,023 sq. ft. and is approximately 5' deep. Samples were retrieved 0 to 6 inches in depth throughout the bottom and sides of the excavation. All samples were transported under Chain of Custody to Argon Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 300.00).

The results of the analysis are as follows:

Date	Sample ID	Cl ⁻ (mg/kg)
4/28/06	North Wall	330
4/28/06	East Wall	10,000
4/28/06	West Wall	1,400
4/28/06	NE Bottom	500
4/28/06	SE Bottom	1,800

Groundwater samples were retrieved from the monitor wells on March 9, 2006. The samples were properly preserved and transported under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (Standards Method 4500-Cl⁻B) and BTEX (EPA Method SW-846-8020).

The results of the analysis were as follows:

Date	Sample ID	Cl ⁻ (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)
3/9/06	MW 1	2340	<0.002	<0.002	<0.002	<0.006
3/9/06	MW 2	200	<0.002	<0.002	<0.002	<0.006

The results of the sampling indicated the chloride levels to be highly elevated in the east wall. It was recommended that the site be excavated additionally on the east side. The monitor wells needed to continue to be sampled on a quarterly basis.

May 12, 2009:

SESI was onsite to retrieve samples of the run and pooling area. Samples were retrieved at depths ranging from 0 to 6 inches throughout the bottom and sides of the excavation. All

samples were transported under Chain of Custody to Ana-Lab of Kilgore, Texas for analysis. The samples were analyzed for Chlorides (EPA Method 300.00).

The results of the analysis are as follows:

Date	Sample ID	Chlorides (mg/kg)
Floor Bottom		
5/12/09	#1	20.1
5/12/09	#2	45.2
5/12/09	#3	42.9
Side Wall		
5/12/09	NW #1	151
5/12/09	NW #2	15,600
5/12/09	NW #3	1550
5/12/09	EW	750
5/12/09	SW #1	108
5/12/09	SW #2	44.8
5/12/09	SW #3	867
5/12/09	WW	1,880

Date	Sample ID	Chlorides (mg/L)
Monitor Wells		
5/12/09	MW #1	1,430
5/12/09	MW #2	128

Date	Sample ID	Chlorides (mg/kg)
5/12/09	Surface 1	5,770
5/12/09	Surface 2	7,180
5/12/09	Surface 3	5,960
5/12/09	Surface 4	7,930

January 4, 2010:

SESI was onsite with Watson Construction to further excavate the area. Samples were retrieved from the floor bottom of the excavation, as well as, the side walls. All grab samples were transported under Chain of Custody to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-B).

The results of the analysis are as follows:

Date	Sample ID	Chlorides (mg/kg)
Floor Bottom		
1/04/10	#1 6'bgs	32
1/04/10	#2 6'bgs	16
1/04/10	#3 6'bgs	<16
Side Walls		
1/04/10	NW #1	80
1/04/10	NW #2	192
1/04/10	NW #3	96
1/04/10	EW	224

1/04/10	SW #1	208
1/04/10	SW #2	736
1/04/10	WW	5,600

SESI was onsite with Watson Construction to further excavate this area which is approximately 7,500 square feet. This area is immediately adjacent to monitor well # 2 which has been sampled in the past and the chloride levels in this well have never exceeded 250 ppm and is located to the south of the first excavation. This second excavation was excavated to a depth of three (3) feet. An additional four (4) samples were taken. All grab samples were transported under Chain of Custody to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-B).

The results of the analysis are as follows:

Date	Sample ID	Chlorides (mg/kg)
1/04/10	SS SP #1 3'bgs	896
1/04/10	SS SP #2 3'bgs	4,800
1/04/10	SS SP #3 3'bgs	4,640
1/04/10	SS SP #4 3'bgs	3,320

January 12, 2010:

SESI was onsite to retrieve water samples from monitor well #1 and #2. The samples were transported under Chain of Custody to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-B), Total Dissolved Solids (TDS) EPA Method 160.1, and Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) EPA Method SW-846 8021B.

The results of the analysis are as follows:

Sample ID	Chlorides (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl Benzene (mg/L)	Total Xylenes (mg/L)
	1/14/10	1/14/10	1/13/10	1/13/10	1/13/10	1/13/10
MW #1	2,000	4,120	<0.001	<0.001	<0.001	<0.003
MW #2	104	559	<0.001	<0.001	<0.001	<0.003

January 19, 2010:

SESI was onsite with Mr. Larry Johnson of New Mexico Oil Conservation Division (NMOCD) to discuss the results of the analysis and closure plan. Due to the pipeline on the west side, Mr. Johnson approved that no further excavation be required. Historical sampling of this run and pooling area is immediately adjacent to monitor well # 2 at this site indicated chloride levels never to have exceeded 250s ppm. Since the contamination had not reached the groundwater at this location, SESI requested and Mr. Johnson approved the installation of a 40-mil liner at the bottom of the excavation. Top soil was placed on top of excavation then a 40-mil liner was installed at a depth of six (6) feet on the west side and at a depth three (3) feet in the south excavation prevent further migration. Topsoil was used to backfill location.

Approximately 1,968 yards of contaminated soils were excavated from both excavations and transported to a New Mexico Oil Conservation Division (NMOCD) approved disposal facility. The location was backfilled with 2,124 yards of topsoil and contoured to its natural grade.

Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements. It is requested that no further action be required at this site with the exception of re-seeding to the landowner's specifications and to continue sampling the monitor wells quarterly.

Please contact me should you have questions or require further information.

Thank you for your attention in this matter.

Sincerely,

Bob Allen CSP, REM
President

ba/sr



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

STE-03-002

BILL RICHARDSON

Governor

Joanna Prukop
Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

June 16, 2003

Stevens & Johnson Operating Co.
PO Box 2249
Wichita Falls, TX 76307-2249

Re: Remediation Work Plan
Denton Field 'South of 82'
Site Location: Sec 1 T15S R37E
Plan Submittal Dated: May 8, 2003

The referenced Work Plan submitted to New Mexico Oil Conservation Division (OCD) by Safety & Environmental Solutions, Inc. (SES) for Stevens & Johnson Operating Co. is **hereby approved** with the following conditions:

- OCD will be given 48 hour notice prior to sampling events to witness and/or split samples
- Drilling to and sampling of groundwater will be prudent if deep chloride contamination is encountered above 250 mg/L or 250 ppm in boring samples
- Provide convex soft soil/sand pad under plastic barrier, pad top to protect from puncture Provide convex soft soil/sand pad under plastic barrier, pad top to protect from puncture
- Increase plastic liner from 20 mil to 30 mil thickness
-
- Increase plastic liner from SES requested 20 mil to 30 mil

Please be advised that OCD approval of this plan does not relieve Stevens & Johnson Operating Co. liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. Additionally, OCD approval does not relieve Stevens & Johnson Operating Co. of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance call: (505) 393-6161, ext. 111, or email: lwjohnson@state.nm.us or Paul Sheeley at: ext. 113, email: psheeley@state.nm.us

Sincerely,

Larry Johnson-Environmental Engineer

Cc: Roger Anderson - Environmental Bureau Chief
Chris Williams - District I Supervisor
Bill Olson - Hydrologist
Paul Sheeley - Environmental Engineer

**Stephens & Johnson Operating Company
South of 82
Section 1, Township 15 South, Range 37 East
Lea County, New Mexico**

Closure Report

January 26, 2010



Prepared for:

**Stephens & Johnson Operating Company
811 Sixth Street, Suite 300
Wichita Falls, Texas 76301-2509**

Prepared by:

**Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510**

Approved by:
Jeffrey L. King
Env. Engineers
NMOC D. Hobbs
01/07/11

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I. Background

Safety & Environmental Solutions, Inc. (SESI) was engaged by Stephens & Johnson Operating Company to perform a site assessment located in Section 1, Township 15 South, and Range 37 East in Lea County, New Mexico. The subject area was impacted by the spillage of an undetermined amount of produced water from an injection line associated with production in the area. The remediation for this site was initiated in September 2003, however, this site has been dormant for several years.

II. Surface and Ground Water

The nearest groundwater of record with the New Mexico State Engineer's Office is in Section 2 of 15 South, 37 East. According to measurements taken February 18, 1966, the depth to water in this well is 42.09 feet.

Monitor wells installed by SESI at this site have respective depths to water of 71.25' and 71.15'. The groundwater measurements were taken on January 11, 2010.

III. Soils

The soils in the area are predominantly sand and sandy loam.

IV. Work Performed

On May 12, 2009 Safety & Environmental Solutions, Inc was onsite to retrieve samples. Samples were retrieved at depths ranging from 0 to 6 inches throughout the bottom and sides of the excavation. All samples were transported under Chain of Custody to Ana-Lab of Kilgore, Texas for analysis. The samples were analyzed for Chlorides (EPA Method 300.00).

The results of the analysis are as follows:

Date	Sample ID	Chlorides (mg/kg)
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1/04/10	SW #1	208
1/04/10	SW #2	736
1/04/10	WW	5,600

On January 19, 2010, SESI was onsite with Mr. Larry Johnson of New Mexico Oil Conservation Division (NMOCD) to discuss the results of the analyticals. Due to the pipeline on the west side, Mr. Johnson approved that no further excavation be required and requested the installation of a 40-mil liner at the bottom of the excavation. A 40-mil liner was installed at a depth of six (6) feet on the west side. The excavation was then backfilled with topsoil.

Mr. Darr Angell had witnessed run and pooling of an area south of the initial excavation. Mr. Angell commented that area appears to be a pooling area from the initial spill.

On May 12, 2009 Safety & Environmental Solutions, Inc was onsite to retrieve samples of the run and pooling area. Samples were retrieved at depths ranging from 0 to 6 inches throughout the bottom and sides of the excavation. All samples were transported under Chain of Custody to Ana-Lab of Kilgore, Texas for analysis. The samples were analyzed for Chlorides (EPA Method 300.00).

The results of the analysis are as follows:

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1/04/10	SS SP #4 3'bgs	3,320

On January 19, 2010, SESI was onsite with Mr. Larry Johnson of New Mexico Oil Conservation Division (NMOCD) to discuss closure plan. The run and pooling area is immediately adjacent to monitor well # 2 at this site. Historical sampling of this well indicates chloride levels never to have exceeded 250s ppm. Since the contamination had not reached the groundwater at this location, SESI requested and Mr. Johnson approved the installation of a 40-mil liner at the bottom of the excavation. Top soil was placed on top of excavation then a 40-mil liner was installed at a depth three (3) feet in the south excavation prevent further migration. Topsoil was used to backfill location.

Approximately 1,968 yards of contaminated soils were excavated from both excavations and transported to a New Mexico Oil Conservation Division (NMOCD) approved disposal facility. The location was backfilled with 2,124 yards of topsoil and contoured to its natural grade.

On January 12, 2010, SESI was onsite to retrieve water samples from monitor well #1 and #2. The samples were transported under Chain of Custody to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-B), Total Dissolved Solids (TDS) EPA Method 160.1, and Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) EPA Method SW-846 8021B.

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MW #1	2,000	4,120	<0.001	<0.001	<0.001	<0.003
MW #2	104	559	<0.001	<0.001	<0.001	<0.003

V. Conclusion

Remedial actions at this site have all been performed with the approval of, and in accordance with all NMOCD requirements. It is requested that no further action be required at this site with the exception of re-seeding to the landowner's specifications and to continue sampling the monitor wells quarterly.

VI. Figures & Appendices

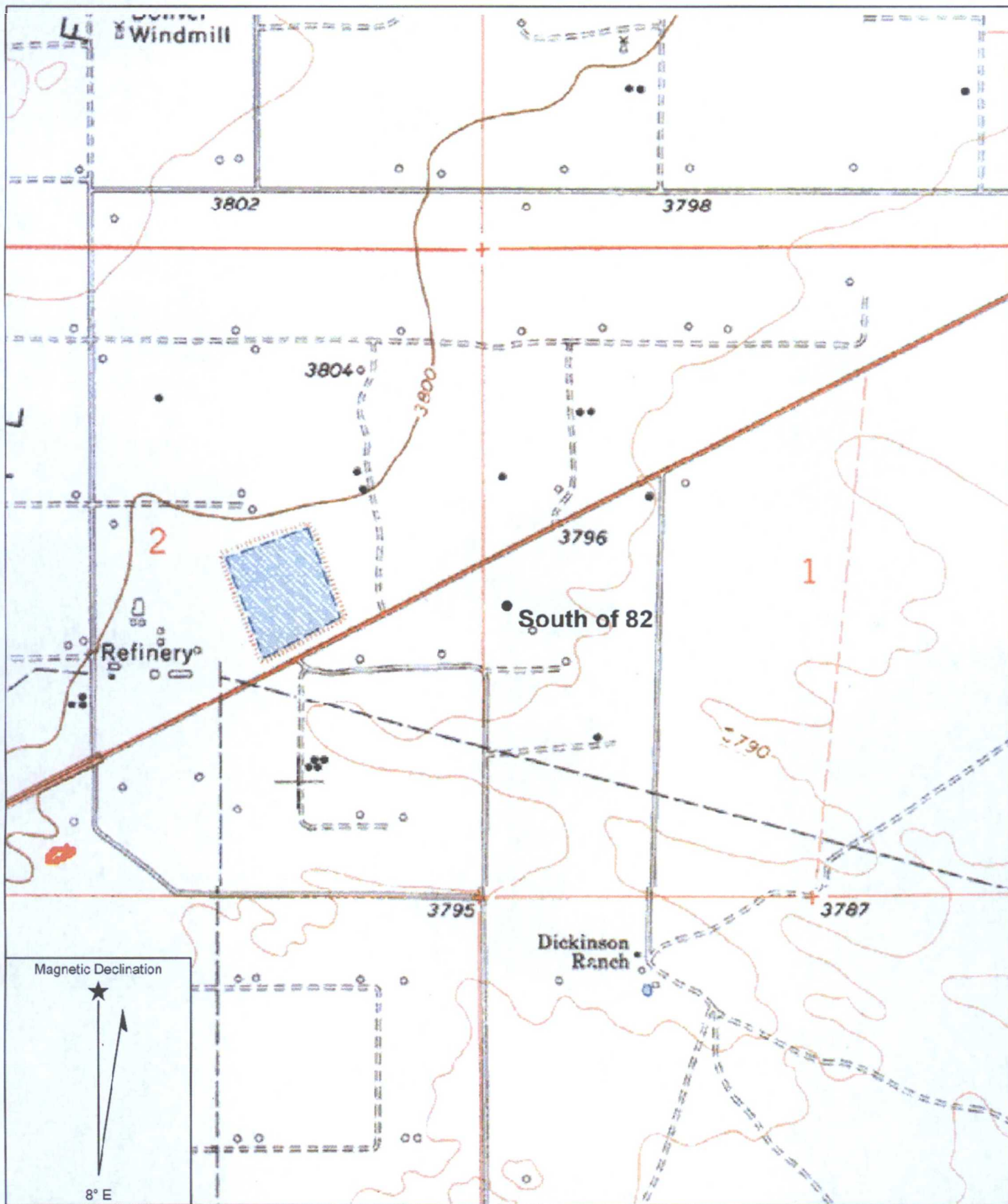
Figure 1 - Vicinity Map

Figure 2 - Site Plan

Appendix A – Analytical Results

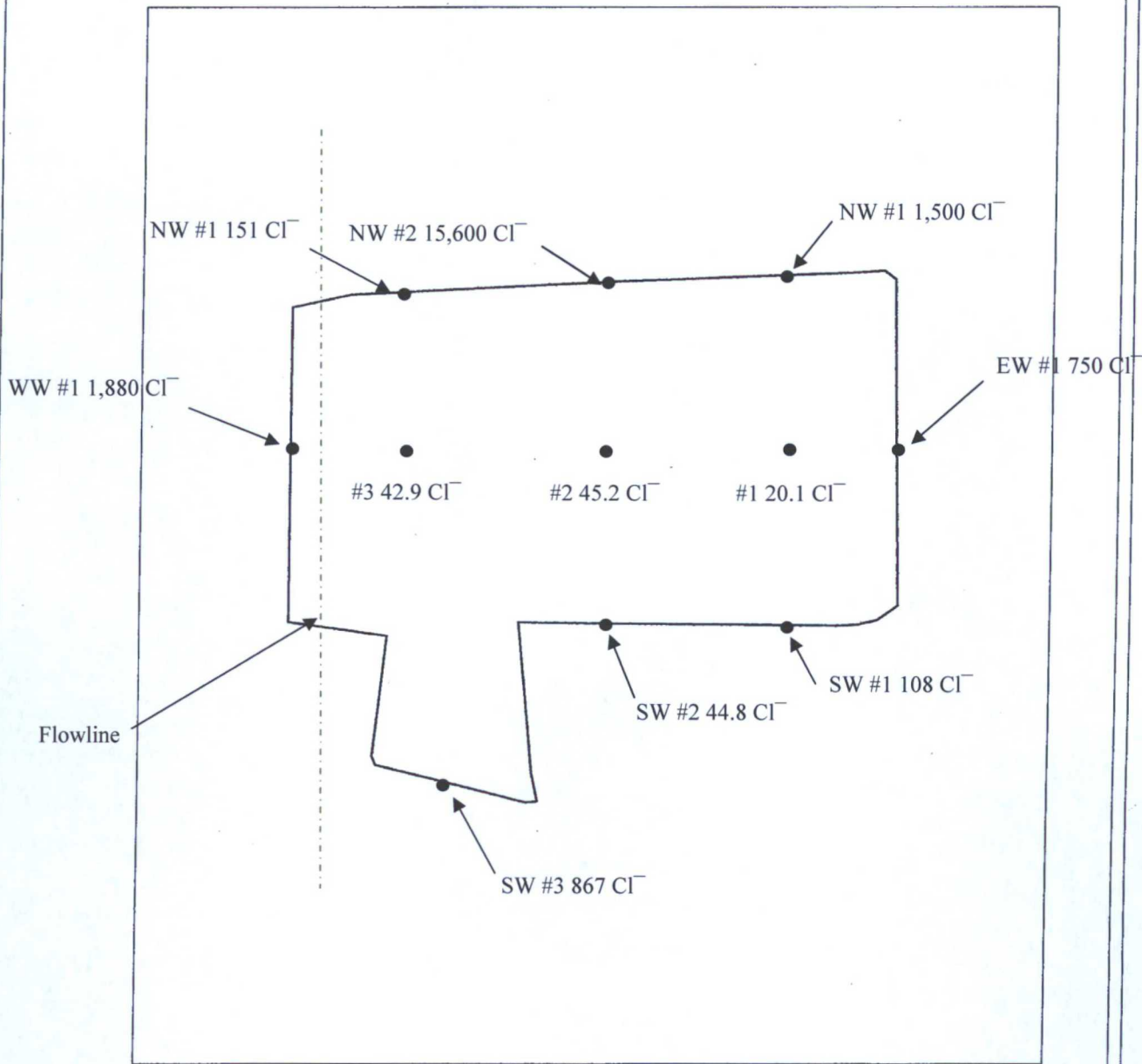
Appendix B – Site Photographs

Appendix C – C-141



Name: PRAIRIEVIEW
Date: 6/8/2009
Scale: 1 inch equals 1000 feet

Location: 033° 02' 44.49" N 103° 09' 41.96" W NAD83



South of 82

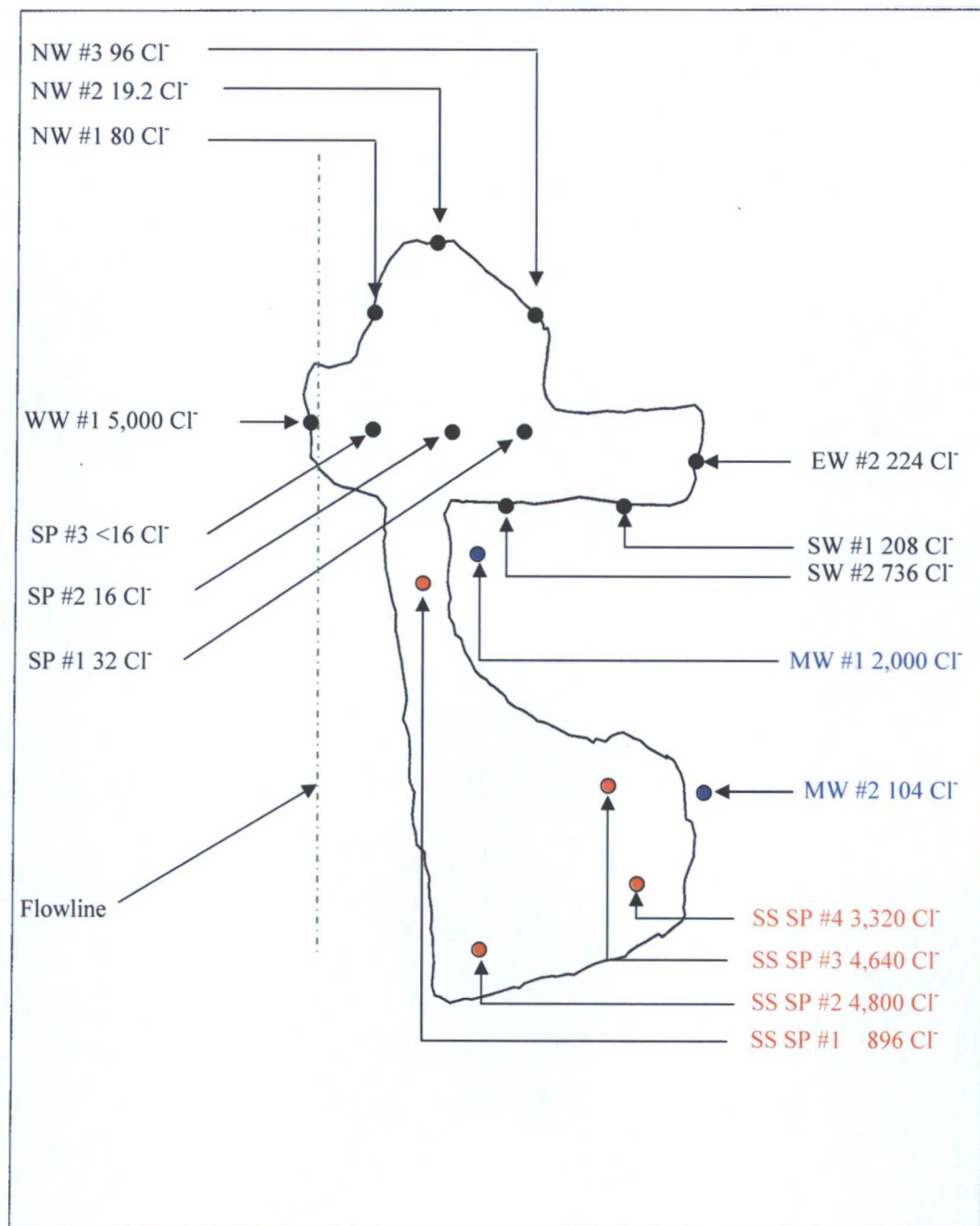
Lat/Long
WGS 1984



Scale 1:200
0 0.004
Miles

STE-03-002.SSF
6/10/2009

GPS Pathfinder® Office
 Trimble™



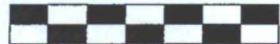
South of 82 Site Plan #2

Lat/Long
NAD 1983 (Conus)



Scale 1 in : 50.0 ft

0 70.00



Feet

excavation & sampling point

GPS Pathfinder® Office





Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

LELAP-accredited #02008

Printed 05/22/2009 Page 1 of 1

Analytical Results

Report Table of Contents

Report To

Brian Cuellar
Safety & Environmental Solutio
703 E. Clinton
Hobbs, NM 88240

Account

SESF

Project

442484

Stevens & Johnson S of 82

This report consists of this Table of Contents and the following pages:

<u>Report Name</u>	<u>Description</u>	<u>Pages</u>
442484_r03_03_ProjectResults	Ana-Lab Project P:442484 C:SESF Project Results	7
442484_r10_05_PROJQCG	Ana-Lab Project P:442484 C:SESF Project Quality Control Groups	3
442484_r99_09_CoC_SESF_1_of_1	Ana-Lab CoC SESF 442484_1_of_1	3
Total Pages:		13

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



ISO-17025 # 0637-01

OSClient v1.0.1.252



NELAP-accredited #T104704201-08-TX



2008 Seal of Excellence

Form rptTOC Created 10/06/2004 v1.1



Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com

LELAP-accredited #02008

Results

Printed:

05/22/2009

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Report To

Brian Cuellar
Safety & Environmental Solutio
703 E. Clinton
Hobbs, NM 88240

Account
SESF-P

Project
442484

Stevens & Johnson S of 82

Results

Accredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
101325	#1	Received: 05/14/2009					
Soil		Collected by: I Kincaid	Affiliation:	Safety & Environment	05/12/2009	13:02	
SW-846 9056		Analyzed: GDG	05/15/2009	2338	QCgroup	318119	
AN	Chloride (water extractable)	20.1	mg/kg	9.00			02
101326	#2	Received: 05/14/2009					
Soil		Collected by: I Kincaid	Affiliation:	Safety & Environment	05/12/2009	13:04	
SW-846 9056		Analyzed: GDG	05/15/2009	2355	QCgroup	318119	
AN	Chloride (water extractable)	45.2	mg/kg	12.0			02
101327	#3	Received: 05/14/2009					
Soil		Collected by: I Kincaid	Affiliation:	Safety & Environment	05/12/2009	13:06	
SW-846 9056		Analyzed: GDG	05/16/2009	1213	QCgroup	318119	
AN	Chloride (water extractable)	42.9	mg/kg	15.0			02
101328	WW	Received: 05/14/2009					
Soil		Collected by: I Kincaid	Affiliation:	Safety & Environment	05/12/2009	13:08	
SW-846 9056		Analyzed: GDG	05/16/2009	1230	QCgroup	318119	
AN	Chloride (water extractable)	1880	mg/kg	150			02
101329	NW#1	Received: 05/14/2009					
Soil		Collected by: I Kincaid	Affiliation:	Safety & Environment	05/12/2009	13:10	
SW-846 9056		Analyzed: LCY	05/16/2009	1257	QCgroup	318122	
AN	Chloride (water extractable)	151	mg/kg	15.0			02
101330	NW#2	Received: 05/14/2009					
Soil		Collected by: I Kincaid	Affiliation:	Safety & Environment	05/12/2009	13:12	
SW-846 9056		Analyzed: LCY	05/16/2009	1315	QCgroup	318122	
AN	Chloride (water extractable)	15600	mg/kg	3000			02

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Results

Accredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
101331	NW#3	Received: 05/14/2009					
Soil		Collected by: I Kincaid		Affiliation:	Safety & Environment	05/12/2009	13:14
SW-846 9056		Analyzed: LCY	05/16/2009	1333	QCgroup	318122	
AN	Chloride (water extractable)	1550	mg/kg	300			02
101332	EW	Received: 05/14/2009					
Soil		Collected by: I Kincaid		Affiliation:	Safety & Environment	05/12/2009	13:16
SW-846 9056		Analyzed: LCY	05/16/2009	1350	QCgroup	318122	
AN	Chloride (water extractable)	750	mg/kg	150			02
101333	SW#1	Received: 05/14/2009					
Soil		Collected by: I Kincaid		Affiliation:	Safety & Environment	05/12/2009	13:20
SW-846 9056		Analyzed: LCY	05/16/2009	1408	QCgroup	318122	
AN	Chloride (water extractable)	108	mg/kg	60.0			02
101334	SW#2	Received: 05/14/2009					
Soil		Collected by: I Kincaid		Affiliation:	Safety & Environment	05/12/2009	13:22
SW-846 9056		Analyzed: LCY	05/18/2009	0935	QCgroup	318122	
AN	Chloride (water extractable)	44.8	mg/kg	3.00			02
101335	SW#3	Received: 05/14/2009					
Soil		Collected by: I Kincaid		Affiliation:	Safety & Environment	05/12/2009	13:24
SW-846 9056		Analyzed: LCY	05/16/2009	1443	QCgroup	318122	
AN	Chloride (water extractable)	867	mg/kg	300			02
101336	MW#1	Received: 05/14/2009					
Liquid Aqueous		Collected by: I Kincaid		Affiliation:	Safety & Environment	05/12/2009	13:55
SW-846 9056		Analyzed: GDG	05/15/2009	0932	QCgroup	318101	
AN	Chloride	1430	mg/L	300			01

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Results

Accredited	Parameter	Results	Units	RL	Flags	CAS	Bottle
101337	MW#2	Received: 05/14/2009					
	Liquid Aqueous	Collected by: I Kincaid	Affiliation: Safety & Environment		05/12/2009	14:10	
AN	SW-846 9056	Chloride	128	mg/L	15.0	QCgroup	318101
							01
101338	Surface 1	Received: 05/14/2009					
	Soil	Collected by: I Kincaid	Affiliation: Safety & Environment		05/12/2009	14:12	
AN	SW-846 9056	Chloride (water extractable)	5770	mg/kg	300	QCgroup	318122
							02
101339	Surface 2	Received: 05/14/2009					
	Soil	Collected by: I Kincaid	Affiliation: Safety & Environment		05/12/2009	14:14	
AN	SW-846 9056	Chloride (water extractable)	7180	mg/kg	750	QCgroup	318122
							02
101340	Surface 3	Received: 05/14/2009					
	Soil	Collected by: I Kincaid	Affiliation: Safety & Environment		05/12/2009	14:16	
AN	SW-846 9056	Chloride (water extractable)	5960	mg/kg	300	QCgroup	318122
							02
101341	Surface 4	Received: 05/14/2009					
	Soil	Collected by: I Kincaid	Affiliation: Safety & Environment		05/12/2009	14:18	
AN	SW-846 9056	Chloride (water extractable)	7930	mg/kg	600	QCgroup	318122
							02

Sample Preparation

101325 #1

Received: 05/14/2009

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Sample Preparation

101325 #1

Received: 05/14/2009

SW-846 9056

Analyzed: GDG 05/15/2009 1430 QCgroup 318001

AN Water Extract-Ion Chromatography 40/4 grams 01

101326 #2

Received: 05/14/2009

SW-846 9056

Analyzed: GDG 05/15/2009 1430 QCgroup 318001

AN Water Extract-Ion Chromatography 40/4 grams 01

101327 #3

Received: 05/14/2009

SW-846 9056

Analyzed: GDG 05/15/2009 1430 QCgroup 318001

AN Water Extract-Ion Chromatography 40/4 grams 01

101328 WW

Received: 05/14/2009

SW-846 9056

Analyzed: GDG 05/15/2009 1430 QCgroup 318001

AN Water Extract-Ion Chromatography 40/4 grams 01

101329 NW#1

Received: 05/14/2009

SW-846 9056

Analyzed: LCY 05/16/2009 0900 QCgroup 318046

AN Water Extract-Ion Chromatography 40/4 grams 01

101330 NW#2

Received: 05/14/2009

SW-846 9056

Analyzed: LCY 05/16/2009 0900 QCgroup 318046

AN Water Extract-Ion Chromatography 40/4 grams 01

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Sample Preparation

101331 NW#3

Received: 05/14/2009

SW-846 9056 Analyzed: LCY 05/16/2009 0900 QCgroup 318046
AN Water Extract-Ion Chromatography 40/4 grams 01

101332 EW

Received: 05/14/2009

SW-846 9056 Analyzed: LCY 05/16/2009 0900 QCgroup 318046
AN Water Extract-Ion Chromatography 40/4 grams 01

101333 SW#1

Received: 05/14/2009

SW-846 9056 Analyzed: LCY 05/16/2009 0900 QCgroup 318046
AN Water Extract-Ion Chromatography 40/4 grams 01

101334 SW#2

Received: 05/14/2009

SW-846 9056 Analyzed: LCY 05/16/2009 0900 QCgroup 318046
AN Water Extract-Ion Chromatography 40/4 grams 01

101335 SW#3

Received: 05/14/2009

SW-846 9056 Analyzed: LCY 05/16/2009 0900 QCgroup 318046
AN Water Extract-Ion Chromatography 40/4 grams 01

101338 Surface 1

Received: 05/14/2009

SW-846 9056 Analyzed: LCY 05/16/2009 0900 QCgroup 318046
AN Water Extract-Ion Chromatography 40/4 grams 01

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Sample Preparation

101339 Surface 2

Received: 05/14/2009

SW-846 9056

Analyzed: LCY 05/16/2009 0900 QCgroup 318046

AN Water Extract-Ion Chromatography 40/4 grams 01

101340 Surface 3

Received: 05/14/2009

SW-846 9056

Analyzed: LCY 05/16/2009 0900 QCgroup 318046

AN Water Extract-Ion Chromatography 40/4 grams 01

101341 Surface 4

Received: 05/14/2009

SW-846 9056

Analyzed: LCY 05/16/2009 0900 QCgroup 318046

AN Water Extract-Ion Chromatography 40/4 grams 01

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Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, EPA National Lead Laboratory Accreditation Program #637.01, US Consumer Product Safety Commission #1095, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201-06-TX, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, USEPA UCMR2 Approved Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365, Alabama Department of Environmental Management Drinking Water #41540. Ana-Lab is also accredited to the international ISO-17025 standard by the American Association for Laboratory Accreditation (A2LA Certificate # 0637-01). The Accredited column designates accreditation by U -- UCMR2 (EPA), A -- A2LA, N -- NELAC, or z -- not covered under one of these scopes of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

C. H. Whiteside

C. H. Whiteside, Ph.D., President



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442484

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318101 I Liquid Aqueous SW-846 9056

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File
Bromide	318101	ND	0.00222	0.0200	mg/L		0000840546
Chloride	318101	ND	0.00767	0.300	mg/L		0000840546
Fluoride	318101	ND	0.00213	0.100	mg/L		0000840546
Nitrate-Nitrite Nitrogen	318101	ND	0.000732	0.0200	mg/L		0000840546
Nitrate-Nitrogen Total	318101	ND	0.000593	0.0100	mg/L		0000840546
Nitrite-Nitrogen, Total	318101	ND	0.000262	0.0100	mg/L		0000840546
Ortho-phosphate as P	318101	ND	0.00133	0.0100	mg/L		0000840546
Sulfate	318101	ND	0.159	0.300	mg/L		0000840546

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Bromide	10.5	10.0	mg/L	105	90.0 - 110		0000840570
Bromide	10.6	10.0	mg/L	106	90.0 - 110		0000840543
Bromide	10.7	10.0	mg/L	107	90.0 - 110		0000840559
Chloride	10.1	10.0	mg/L	101	90.0 - 110		0000840570
Chloride	10.2	10.0	mg/L	102	90.0 - 110		0000840543
Chloride	10.3	10.0	mg/L	103	90.0 - 110		0000840559
Fluoride	10.4	10.0	mg/L	104	90.0 - 110		0000840543
Fluoride	10.4	10.0	mg/L	104	90.0 - 110		0000840570
Fluoride	10.6	10.0	mg/L	106	90.0 - 110		0000840559
Nitrate-Nitrite Nitrogen	5.29	5.30	mg/L	99.8	90.0 - 110		0000840543
Nitrate-Nitrite Nitrogen	5.30	5.30	mg/L	100	90.0 - 110		0000840570
Nitrate-Nitrite Nitrogen	5.31	5.30	mg/L	100	90.0 - 110		0000840559
Nitrate-Nitrogen Total	2.24	2.26	mg/L	99.1	90.0 - 110		0000840543
Nitrate-Nitrogen Total	2.25	2.26	mg/L	99.6	90.0 - 110		0000840570
Nitrate-Nitrogen Total	2.26	2.26	mg/L	100	90.0 - 110		0000840559
Nitrite-Nitrogen, Total	3.05	3.04	mg/L	100	90.0 - 110		0000840543
Nitrite-Nitrogen, Total	3.05	3.04	mg/L	100	90.0 - 110		0000840559
Nitrite-Nitrogen, Total	3.05	3.04	mg/L	100	90.0 - 110		0000840570
Ortho-phosphate as P	3.50	3.26	mg/L	107	90.0 - 110		0000840543
Ortho-phosphate as P	3.52	3.26	mg/L	108	90.0 - 110		0000840570
Ortho-phosphate as P	3.54	3.26	mg/L	109	90.0 - 110		0000840559
Sulfate	10.3	10.0	mg/L	103	90.0 - 110		0000840570
Sulfate	10.4	10.0	mg/L	104	90.0 - 110		0000840543
Sulfate	10.5	10.0	mg/L	105	90.0 - 110		0000840559

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442484

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318101 I Liquid Aqueous SW-846 9056

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Bromide	318101	1.08	1.00	mg/L	108	90.0 - 110	0000840544	
Chloride	318101	0.969	1.00	mg/L	96.9	90.0 - 110	0000840544	
Fluoride	318101	0.997	1.00	mg/L	99.7	90.0 - 110	0000840544	
Nitrate-Nitrite Nitrogen	318101	0.517	0.530	mg/L	97.5	90.0 - 110	0000840544	
Nitrate-Nitrogen Total	318101	0.214	0.226	mg/L	94.7	90.0 - 110	0000840544	
Nitrite-Nitrogen, Total	318101	0.303	0.304	mg/L	99.7	90.0 - 110	0000840544	
Ortho-phosphate as P	318101	0.303	0.326	mg/L	92.9	90.0 - 110	0000840544	
Sulfate	318101	0.943	1.00	mg/L	94.3	90.0 - 110	0000840544	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Bromide	318101	1.08	1.07	1.00	90.0 - 110	108	107	mg/L	0.930	20.0
Chloride	318101	0.969	0.968	1.00	90.0 - 110	96.9	96.8	mg/L	0.103	20.0
Fluoride	318101	0.997	1.03	1.00	90.0 - 110	99.7	103	mg/L	3.26	20.0
Nitrate-Nitrite Nitrogen	318101	0.517	0.517	0.530	90.0 - 110	97.5	97.5	mg/L	0	20.0
Nitrate-Nitrogen Total	318101	0.214	0.217	0.226	90.0 - 110	94.7	96.0	mg/L	1.36	20.0
Nitrite-Nitrogen, Total	318101	0.303	0.300	0.304	90.0 - 110	99.7	98.7	mg/L	1.01	20.0
Ortho-phosphate as P	318101	0.303	0.317	0.326	90.0 - 110	92.9	97.2	mg/L	4.52	20.0
Sulfate	318101	0.943	0.954	1.00	90.0 - 110	94.3	95.4	mg/L	1.16	20.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Bromide	100958	104	103	ND	100	90.0 - 110	104	103	mg/L	0.966	30.0
Chloride	100958	253	248	145	100	90.0 - 110	108	103	mg/L	4.74	30.0
Fluoride	100958	102	98.7	ND	100	90.0 - 110	102	98.7	mg/L	3.29	30.0
Nitrate-Nitrite Nitrogen	100958	55.8	54.4	4.97	53.0	90.0 - 110	95.9	93.3	mg/L	2.75	30.0
Nitrate-Nitrogen Total	100958	24.9	24.7	3.86	22.6	90.0 - 110	93.1	92.2	mg/L	0.971	30.0
Nitrite-Nitrogen, Total	100958	30.9	29.7	1.11	30.4	90.0 - 110	98.0	94.0	mg/L	4.17	30.0
Ortho-phosphate as P	100958	42.9	42.8	10.7	32.6	90.0 - 110	98.8	98.5	mg/L	0.304	30.0
Sulfate	100958	177	174	78.2	100	90.0 - 110	98.8	95.8	mg/L	3.08	30.0

318119 I Soil SW-846 9056

Blank

Parameter	PrepSet	Reading	MDL	MDL	Units	Out	File
Chloride (water extractable)	318001	ND	0.0534	0.300	mg/kg		0000840797

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
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Report No.

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Safety & Environmental Solutions
703 E. Clinton
Hobbs, NM 88240

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18119 I Soil SW-846 9056

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Chloride (water extractable)	10.1	10.0	mg/kg	101	90.0 - 110		0000840799
Chloride (water extractable)	10.2	10.0	mg/kg	102	90.0 - 110		0000840796
Chloride (water extractable)	10.2	10.0	mg/kg	102	90.0 - 110		0000840798
Chloride (water extractable)	10.2	10.0	mg/kg	102	90.0 - 110		0000840812
Chloride (water extractable)	10.2	10.0	mg/kg	102	90.0 - 110		0000840822
Chloride (water extractable)	10.2	10.0	mg/kg	102	90.0 - 110		0000840825
Chloride (water extractable)	10.3	10.0	mg/kg	103	90.0 - 110		0000840823

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Chloride (water extractable)	318001	0.948	1.00	mg/kg	94.8	90.0 - 110	0000840800	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride (water extractable)	318001	0.948	1.09	1.00	90.0 - 110	94.8	109	mg/kg	13.9	20.0

18122 I Soil SW-846 9056

Blank

Parameter	PrepSet	Reading	MDL	MDL	Units	Out	File
Chloride (water extractable)	318046	ND	0.0534	0.300	mg/kg		0000840894

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Chloride (water extractable)	10.1	10.0	mg/kg	101	90.0 - 110		0000840893
Chloride (water extractable)	10.1	10.0	mg/kg	101	90.0 - 110		0000840906
Chloride (water extractable)	10.1	10.0	mg/kg	101	90.0 - 110		0000840916
Chloride (water extractable)	10.3	10.0	mg/kg	103	90.0 - 110		0000840917
Chloride (water extractable)	10.3	10.0	mg/kg	103	90.0 - 110		0000840920

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Chloride (water extractable)	318046	0.982	1.00	mg/kg	98.2	90.0 - 110	0000840895	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride (water extractable)	318046	0.982	0.962	1.00	90.0 - 110	98.2	96.2	mg/kg	2.06	20.0

RPD is Relative Percent Difference: $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

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Panhandle Oklahoma North-TX Central-TX
 806.355.3556 405.292.6630 817.251.6404 512.821.0045
 Rio Grand Valley Ark-La-Miss Gulf Coast Alabama
 956.831.6437 318.219.9300 281.333.9414 256.830.0788



2600 Dudley Rd
 PO Box 9000
 Kilgore, TX 75662
 903.984.0551
 (fx) 903.984.5914
 e-mail: corp@ana-lab.com



Report to:		Project- Name / Location Stevens & Johnson S. of 82		Analysis Requested	
Company name: SESE		Client Code:			
Address: 203 E Clinton		City		State	
City		State		Zip	
Phone		E-mail		Fax	
575-387-0510		office@sest-nm.com			
Sampler Signature		Printed Name Isaac Lincoln		PG Number STE-03-002	
Lab Number		Field Identification		Containers	
Do Not Use		Date		Time	
#1		5/12/19		1302 Soil	
#2		1304		Comp/Grab	
#3		1306		Comp/Grab	
WW		1308		Comp/Grab	
NW #1		1310		Comp/Grab	
NW #2		1312		Comp/Grab	
NW #3		1314		Comp/Grab	
EW		1316		Comp/Grab	
SW #1		1320		Comp/Grab	
SW #2		1322		Comp/Grab	
Date		Time		Is Hazardous for: <input type="checkbox"/> HF <input type="checkbox"/> CN <input type="checkbox"/> S= <input type="checkbox"/>	
5/13/19 1500		Is Relinquished by		Received by	
5/14/19 0940		Signature Isaac Lincoln		Signature Christi Parker	
Printed Name Isaac Lincoln		Affiliation SESE		Printed Name Christi Parker	
Affiliation		Signature		Affiliation Ana-Lab	

Samples Received on Ice? ☐ Yes ☒ No
 Cooler/Sample Secure? ☒ Yes ☐ No
 Requested TAT ☒ 4 day ☐ 3 day ☐ 2 Day ☐ next day
 Method of Shipment ☐ Bus ☒ FedEx ☐ Lone Star ☐ UPS ☐ Hand delivered ☐ DHL ☐ other
 Tracking or Shipping Number
 9039210482
 003689 ☐
 003233 ☐
 003532 ☐
 003688 ☐
 250



Panhandle Oklahoma North-TX Central-TX
 806.355.3556 405.292.6630 817.261.6404 512.821.0045
 Rio Grand Valley Ark-La-Miss Gulf Coast Alabama
 956.831.6437 318.219.9300 281.333.9414 256.830.0788



2600 Dudley Rd
 PO Box 9000
 Kilgore, TX 75662
 903.984.0551
 (fx) 903.984.5914
 e-mail: corp@ana-lab.com



Report to: **SESE**

Company name: **SESE**

Address: **703 E Clinton**

City: **Hobbs** State: **NM** Zip: **88240**

Phone: **505-397-0510** Fax: **505-397-0510**

Sampler Signature: *[Signature]* Printed Name: **Isaac Kinard** Affiliation: **SESE**

Lab Number: **SW #3** Field Identification: **SW #3** Date: **5/12/14** Time: **1324** Matrix: **Soil** Containers: **1** Comments: **Comp/Grab**

Lab Number: **MW #1** Field Identification: **MW #1** Date: **5/12/14** Time: **1355** Matrix: **H2O** Containers: **1** Comments: **Comp/Grab**

Lab Number: **MW #2** Field Identification: **MW #2** Date: **5/12/14** Time: **1410** Matrix: **H2O** Containers: **1** Comments: **Comp/Grab**

Lab Number: **Surface 1** Field Identification: **Surface 1** Date: **5/12/14** Time: **1412** Matrix: **Soil** Containers: **1** Comments: **Comp/Grab**

Lab Number: **Surface 2** Field Identification: **Surface 2** Date: **5/12/14** Time: **1414** Matrix: **Soil** Containers: **1** Comments: **Comp/Grab**

Lab Number: **Surface 3** Field Identification: **Surface 3** Date: **5/12/14** Time: **1416** Matrix: **Soil** Containers: **1** Comments: **Comp/Grab**

Lab Number: **Surface 4** Field Identification: **Surface 4** Date: **5/12/14** Time: **1418** Matrix: **Soil** Containers: **1** Comments: **Comp/Grab**

Relinquished by: **Isaac Kinard** Signature: *[Signature]* Printed Name: **Isaac Kinard** Affiliation: **SESE**

Received by: **Chad Parker** Signature: *[Signature]* Printed Name: **Chad Parker** Affiliation: **ANA-LAB**

Is Hazardous for: ☐ HF ☐ CN ☐ S ☐ ☐ Wastewater ☐ Drinking Water ☐ SW846

Samples Received on Ice? ☐ Yes ☒ No

Cooler/Sample Secure? ☐ Yes ☒ No

Requested TAT: **Anytime** ☐ 3 day ☐ 2 day ☐ next day

Method of Shipment: ☐ Bus ☒ FedEX ☐ Lone Star ☐ UPS ☐ Hand delivered ☐ DHL ☐ other

Tracking or Shipping Number: **79792101482**

Comments: **003689** **003233** **003532** **002688**

[Handwritten initials]



ARDINAL LABORATORIES

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

January 18, 2010

Bob Allen
Safety & Environmental Solutions, Inc.
703 East Clinton, #102
Hobbs, NM 88240

Re: South of 82 (STE-03-002)

Enclosed are the results of analyses for sample number H19079, received by the laboratory on 01/15/10 at 4:40 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.



ARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

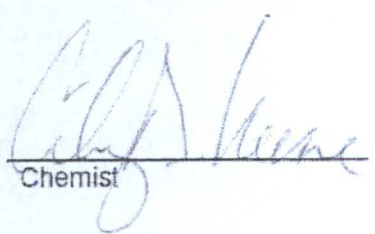
Receiving Date: 01/15/10
Reporting Date: 01/18/10
Project Number: STE-03-002 (STEVENS & JOHNSON)
Project Name: SOUTH OF 82
Project Location: LEA CO., NM

Analysis Date: 01/18/10
Sampling Date: 01/13/10
Sample Type: SOIL
Sample Condition: INTACT @ 20.5°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/kg)
H19079-1	#1 6' BGS	32
H19079-2	#2 6' BGS	16
H19079-3	#3 6' BGS	< 16
H19079-4	NW #1	80
H19079-5	NW #2	192
H19079-6	NW #3	96
H19079-7	EW	224
H19079-8	SW #1	208
H19079-9	SW #2	736
H19079-10	WW	5,600
Quality Control		510
True Value QC		500
% Recovery		102
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-Cl⁻B

Note: Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H19079 SESI

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 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.



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

Page 1 of 2

BILL TO				ANALYSIS REQUEST																							
P.O. #:																											
Company:																											
Attn:																											
Address:																											
City:																											
State:																											
Zip:																											
Phone #:																											
Fax #:																											
LABORATORY USE ONLY				MATRIX				PRESERV		SAMPLING		DATE		TIME													
Lab I.D.				Sample I.D.				(G) RAB OR (C) CMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SLUDGE		OTHER:		ACID/BASE		ICE / COOL		OTHER:			
119079-1 #1				6' bgs				6		1		✓				11/13/01		1208									
-2 #2				6' bgs				1		1		✓				1210		1212									
-3 #3				6' bgs				1		1		✓				1358		1211									
-4 NW #1				1211				1		1		✓				1220		1214									
-5 NW #2				1214				1		1		✓				1222		1224									
-6 NW #3				1224				1		1		✓				1226		1226									
-7 EW				1226				1		1		✓															
-8 SW #1								1		1		✓															
-9 SW #2								1		1		✓															
10 WW								1		1		✓															

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Sampler Relinquished By:		Date: 11/15/01	
Relinquished By:		Date: 10/00	
Time:		Time:	
Delivered By: (Circle One)		Temp. Sample Condition	
Sampler: UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
Checked By:		Checked By:	
Phone Result: <input type="checkbox"/> No <input type="checkbox"/> No		Add'l Phone #: <input type="checkbox"/> No <input type="checkbox"/> No	
Fax Result: <input type="checkbox"/> No <input type="checkbox"/> No		Add'l Fax #: <input type="checkbox"/> No <input type="checkbox"/> No	
REMARKS: iKinard @ SESI-nm.com			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.



ARDINAL LABORATORIES

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

January 18, 2010

Bob Allen
Safety & Environmental Solutions, Inc.
703 East Clinton, #102
Hobbs, NM 88240

Re: South of 82 (STE-03-002)

Enclosed are the results of analyses for sample number H19080, received by the laboratory on 01/15/10 at 4:40 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director



ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

Receiving Date: 01/15/10
Reporting Date: 01/18/10
Project Number: STE-03-002 (STEVENS & JOHNSON)
Project Name: SOUTH OF 82
Project Location: LEA CO., NM

Analysis Date: 01/18/10
Sampling Date: 01/15/10
Sample Type: SOIL
Sample Condition: INTACT @ 20°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl ⁻ (mg/kg)
H19080-1	SS SP #1 3' BGS	896
H19080-2	SS SP #2 3' BGS	4,800
H19080-3	SS SP #3 3' BGS	4,640
H19080-4	SS SP #4 3' BGS	3,320
Quality Control		510
True Value QC		500
% Recovery		102
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-CIB
--------------------------	----------

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date: _____

H19080 SESI

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 Fax (575) 393-2476

BILL TO				ANALYSIS REQUEST											
Company Name: <u>SESE</u>															
Project Manager: <u>Bob Allen</u>															
Address: <u>703 E Clinton</u>															
City: <u>Hobbs</u>															
Phone #: <u>575-397-0510</u> Fax #: <u>575-397-0510</u>															
Project #: <u>STE-03-002</u>															
Project Name: <u>South of 82</u>															
Project Location: <u>Lea Co, NM</u>															
Sampler Name: <u>Trace Kinard</u>															
FOR LAB USE ONLY															
Lab I.D.															
Sample I.D.															
11/15/10-1															
2															
3															
4															

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Sampler Relinquished:		Date: <u>11/15/10</u>		Received By:	
		Time: <u>10:40</u>		Received By: <u>Bob Allen</u>	
Delivered By: (Circle One)		Temp: <u>20C</u>		Sample Condition	
Sampler		UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
				Checked By: <u>JA</u>	
				Phone Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
				Fax Result: <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:	
				REMARKS: <u>if Kinard @ SESE-NM.com</u>	



CARDINAL LABORATORIES

PHONE (575) 393-2325 • 101 E. MARLAND • HOBBS, NM 88240

January 15, 2010

Bob Allen
Safety & Environmental Solutions, Inc.
703 East Clinton, #102
Hobbs, NM 88240

Re: South of 82 (STE-03-002)

Enclosed are the results of analyses for sample number H19038, received by the laboratory on 01/12/10 at 4:30 pm.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

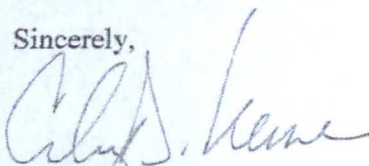
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 4 (includes Chain of Custody)

Sincerely,


Celey D. Keene
Laboratory Director



ARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

Receiving Date: 01/12/10
Reporting Date: 01/14/10
Project Number: STE-03-002(STEVENS & JOHNSON)
Project Name: SOUTH OF 82
Project Location: LEA, NM

Sampling Date: 01/12/10
Sample Type: WATER
Sample Condition: INTACT @ 13.5°C
Sample Received By: JH
Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		01/13/10	01/13/10	01/13/10	01/13/10
H19038-1	MW #1	<0.001	<0.001	<0.001	<0.003
H19038-2	MW #2	<0.001	<0.001	<0.001	<0.003
Quality Control		0.051	0.049	0.051	0.136
True Value QC		0.050	0.050	0.050	0.150
% Recovery		102	98.0	102	90.7
Relative Percent Difference		2.0	<1.0	2.0	1.9

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704396-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES.


Lab Director


Date

H19038 BTEX SES1

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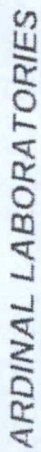
ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

Sampling Date: 01/12/10
Sample Type: WATER
Sample Condition: INTACT @ 13.5°C
Sample Received By: JH
Analyzed By: HM

METHOD: Standard Methods, EPA Not accredited for Chloride and TDS.	4500-ClB	160.1
---	----------	-------

Date 01/15/10

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Page / of /

BILL TO				ANALYSIS REQUEST															
Company Name: SESE Project Manager: Bob Allen Address: 703 E Clinton City: Hobbs, NM State: NM Zip: 88240 Phone #: 575-397-0510 Fax #: Project #: Ste-03-002 Project Owner: Stevens & Johnson City Project Name: South of 82 Project Location: Coon, NM Sampler Name: Isaac Kincaid				P.O. #: Company: Attn: Address: State: Zip: Phone #: Fax #:				<div style="display: flex; justify-content: space-between;"> <div> DATE 1/21/05 TIME 00:10/11:00 DATE 1/21/05 TIME 00:10/11:00 </div> <div> DATE 1/21/05 TIME 00:10/11:00 DATE 1/21/05 TIME 00:10/11:00 </div> </div>											
Lab I.D. 119038-P-1900 #1 1900 #2				Sample I.D.				MATRIX WASTEWATER <input checked="" type="checkbox"/> SLUDGE <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> GROUNDWATER <input checked="" type="checkbox"/>				PRESERV ACID/BASE <input checked="" type="checkbox"/> ICE / COOL <input checked="" type="checkbox"/> OTHER:				SAMPLING DATE TIME 1/21/05 00:10/11:00			
FOR USE ONLY				(C) RAB OR (C) OMP 4 4				# CONTAINERS				RECEIVED BY: Date: 1/21/05 Time: 10:30 Date: 1/21/05 Time: 10:30 Date: 1/21/05 Time: 10:30							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Received By: Date: 1/21/05 Time: 10:30 Date: 1/21/05 Time: 10:30 Date: 1/21/05 Time: 10:30				REMARKS:				Phone Result: <input type="checkbox"/> <input type="checkbox"/> Fax Result: <input type="checkbox"/> <input type="checkbox"/> ADD'l Phone #: ADD'l Fax #:							

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

92#

Stevens and Johnson S. 82 site photos 1-14-10



Southside excavation facing east



Excavated area facing north



Southside excavation facing east



Southside excavation facing north



East wall excavated facing east



North wall excavation facing northeast



Excavated area facing south



Excavated area facing southeast



South wall excavation facing south



West wall facing west



Excavated area facing west

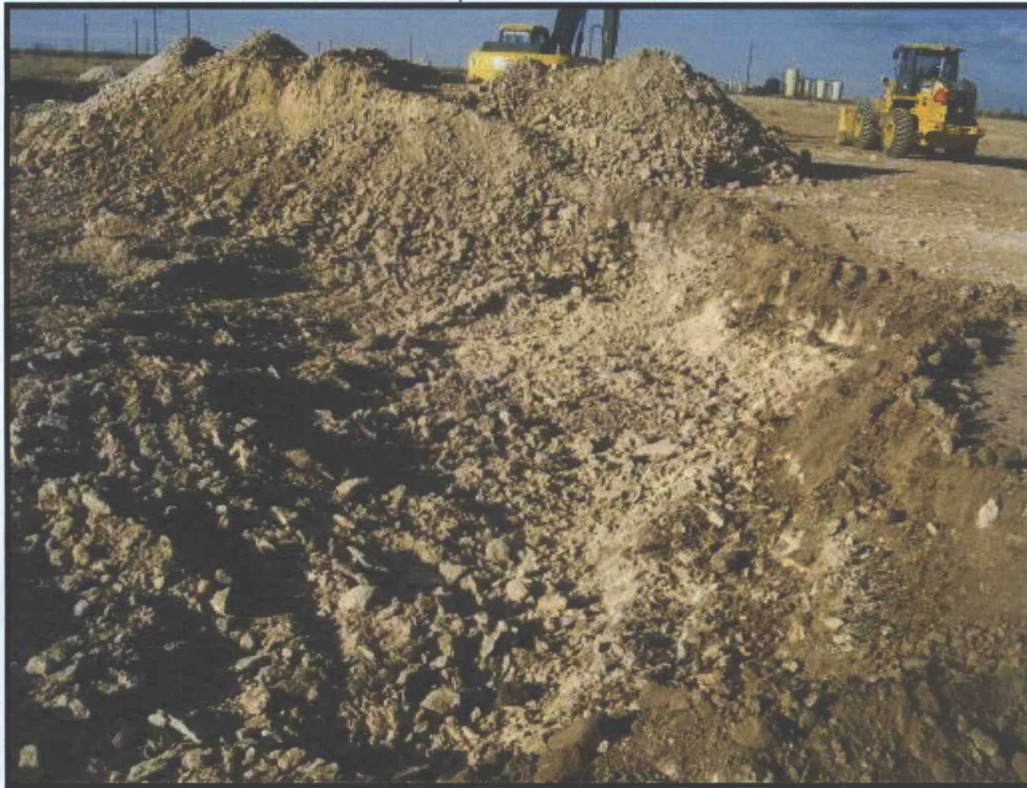


South side excavation facing west



South side excavation facing north

Site photos 1-15-10



South side area excavated facing north



Southside area excavated facing northwest



Southside area excavated facing north



Southside area excavated facing east



Southside area excavated facing southeast



Southside area excavated facing west

Site photos 1-28-10



South side excavation facing east



South side excavation facing north



South side excavation facing west



South side excavation facing southwest



Excavated area with topsoil for padding facing west



Excavated area with topsoil for padding facing west



Excavated area with topsoil for padding facing east



Excavated area with topsoil for padding facing east



Southside excavation with padding facing north



Southside excavation with padding facing northwest



Southside excavation lined facing west



Southside excavation lined facing west



Southside excavation lined facing east



Excavated area lined facing southwest



Excavated area lined facing north



Excavated area lined facing east



Excavated area lined facing east



Excavated area lined facing west



Excavated area backfilled with topsoil facing northwest



Excavated area backfilled with topsoil facing north



Excavated area backfilled with topsoil facing west



Excavated area backfilled with topsoil facing north



Excavated area backfilled with topsoil facing west



Excavated area backfilled with topsoil facing west



Excavated area backfilled with topsoil facing south



Excavated area backfilled with topsoil facing south



Excavated area backfilled with topsoil facing south



Excavated area backfilled with topsoil facing south