

September 24, 2010

Mr. Mike Bratcher Environmental Bureau Oil Conservation Division, District 2 1301 W. Grand Ave. Artesia, New Mexico 88210

RE: Assessment and Closure Request for the Stephens and Johnson Operating Co., East Millman Unit #150, located in Unit Letter P, Section 15, Township 19 South, Range 28 East, Eddy County, New Mexico. (LOV #02-09-132)

Dear Mr. Bratcher:

Tetra Tech Inc. was contacted by Stephens and Johnson Operating Co. to assess and remediate a vent area located Unit Letter P, Section 15, Township 19 South, Range 28 East, Eddy County, New Mexico. The vent area is located west of the Millman Tank Battery. Periodically, the gas and oil from the tank battery was vented into an earthen pit measuring approximately 25' x 25'. Stephens and Johnson received a Letter of Violation (LOV), dated February 23, 2010, from the New Mexico Oil Conservation Division (NMOCD) addressing the vent area and impacted soils. The LOV and the initial C-141 are enclosed in Appendix A.

Tetra Tech submitted a work plan to assess impacted soils associated with the earthen pit, dated March 15, 2010. The work plan proposed the following:

- 1. Discontinue venting into the earthen pit.
- 2. Remove free fluids from the earthen pit.
- 3. The venting line will be connected to an above ground tank to contain any liquids during periodic venting.
- 4. Once the equipment and vent line are removed, the earthen pit will be scraped (1.0' to 2.0') to remove saturated soils, which would be hauled to proper disposal.
- 5. Once removed, Tetra Tech will supervise the installation of boreholes to assess the impacted soil.

RECEIVED OCT 22 2010

Tetra Tech 1910 North Big Spring, Midland, TX 79705



Groundwater and Regulatory

A review of the New Mexico office of the State Engineer and the USGS database did show wells in Section 9, Township 19 South, Range 25 East with reported depths to water of 265' and 246', respectively. The groundwater depth map is enclosed in Appendix B.

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. Based upon the risk based evaluation, the Site will be remediated to the proposed RRAL of 5,000 mg/kg.

Soil Assessment/Boreholes Installation

Stephens and Johnson have discontinued the used of the earthen pit. The vent line has been plumbed into an above ground tank to contain any liquids from periodic venting. In additional, the free liquids were removes and earthen pit the was excavated to remove the saturated soil, approximately 2.0 to 4.0" below surface. The excavated soil was transported to proper disposal. Once completed, Stephens and Johnson contacted Tetra Tech to evaluate the soils.

On May 6, 2010, Tetra Tech personnel were onsite to supervise the installation of boreholes using an air rotary rig. Soil samples were collected to evaluate the extent of subsurface impact at this site to total depth of 20.0' to 40.0' below surface. In addition, a background borehole was installed to evaluate the soil surrounding the area. Borehole (BH-1) was installed in the center of the vent pit to define the vertical extents and the remaining boreholes (BH-2, BH-3, BH-4 and BH-5) were installed around the perimeter of the pit to define the horizontal extents. The soil samples were placed into laboratory supplied containers and delivered to a laboratory under chain-of-custody control for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B and chloride by EPA method 300.0. The laboratory reports and chain of custody documentation are included in Appendix C. The borehole data is summarized in Table 1.

Referring to Table 1, none of the samples exceed the RRAL for TPH or BTEX. The chloride concentrations did show a slight impact the subsurface soils. Borehole (BH-1), installed in the center of the pit, showed chloride concentrations <1,000 mg/kg, with a bottom hole concentration of 368 mg/kg at 20.0' below excavation bottom. The samples



from BH-2 were all below 1,000 mg/kg, with bottom hole concentration of 507 mg/kg. Boreholes (BH-3, BH-4 and BH-5) did show chloride concentrations slightly above 1,000 mg/kg (1,260 mg/kg, 1,270 mg/kg and 1,130 mg/kg) at varying depths. The samples declined with depth, with bottom hole concentrations of <200 mg/kg at 20', 575 mg/kg at 20' and 460 mg/kg at 40', respectively.

The background borehole was installed to a depth of 60' below surface and showed chloride concentrations <200 in the majority of the samples, with a chloride high of 289 mg/kg at 30' below surface.

Recommendations

Based on the results, the soil impact appears to be limited around the pit area and the investigation did not show a significant impact the subsurface soil. The visually oily soil surrounding the pit will be excavated and hauled to proper disposal. Prior to backfilling, a 40 mil liner will be installed at 4.0' below surface to cap the pit area. The area will be backfilled with clean soil to grade. Once the remedial activities are performed, Stephens and Johnson will submit a final C-141 and request closure of the site.

If you have any questions or comments concerning the assessment, please call me at (432) 682-4559.

Ike Tavarez P.G.

Project Manager/Senior Geologist

cc: Mike Kincaid - Stephens and Johnson

TABLE

STEPHENS & JOHNSON EAST MILLMAN TANK BATTERY EDDY COUNTY, NEW MEXICO

Sample	Date	Sample	Soil	Status	•	TPH (mg/kg	<u>)</u>	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID _	Sampled	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-1	5/5/2010	0-1'	Х		1140	404	1544	0.816	1.35	1.16	3.49	<200
		3-4'	Х		-	-	_	-	-	-	-	246
		7-8'	Х		-	-	-	-	-	-	•	398
		10-11'	Х		-	-	-	-	_	-	-	355
		15-16'	X		-	-	-	-	-	-	-	617
		20-21'	Х		-	_	-	-	•	-	_	368
							· · · · · · · · · · · · · · · · · · ·					
BH-2	5/5/2010	0-1'	Х		<1.00	177	177	<0.0100	<0.0100	<0.0100	<0.0100	779
		3-4'	Х		-	-	-	-	_	-	_	913
		7-8'	Х			-	-	-	-	-	-	435
		10-11'	Х			-	-	-	-	-	-	<200
		15-16'	X		-	-	-	-	-	-	-	621
		20-21'	Х		•	-	-	-	•	-	-	507
BH-3	5/6/2010	0-1'	X		<1.00	<50.00	<50.00	<0.0100	<0.0100	<0.0100	<0.0100	<200
		3-4'	X			-	-		-	<u>-</u>	-	1,260
		7-8'	X		-	-	•	_	_	i - 1		
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		10-11'	X		-	-	12-	-	•	-	-	667
		15-16'	Х		-	-	-	-	-	-	-	667 <200
							12-	-	•	-	-	667
		15-16'	Х		-	-	-	-	-	-	-	667 <200
BH-4	5/6/2010	15-16'	Х		-	-	-	-	-	-	-	667 <200
BH-4	5/6/2010	15-16' 20-21'	X		-	-	-					667 <200 <200
BH-4	5/6/2010	15-16' 20-21' 0-1'	X		<1.00	<50.00	<50.00	<0.0100	<0.0100	- - - - <0.0100	- - - · <0.0100	667 <200 <200 <200
BH-4	5/6/2010	15-16' 20-21' 0-1' 3-4'	X X		- - <1.00	<50.00	- - - - <50.00	<0.0100	<0.0100	<0.0100	<0.0100	<pre>667 <200 <200 <200 <200 247</pre>
BH-4	5/6/2010	0-1' 3-4' 7-8'	X X X X		- - <1.00	<50.00	<50.00 -	<0.0100	<0.0100	- - - <0.0100 - -	<0.0100	<pre>667 <200 <200 <200 <200 247 918</pre>

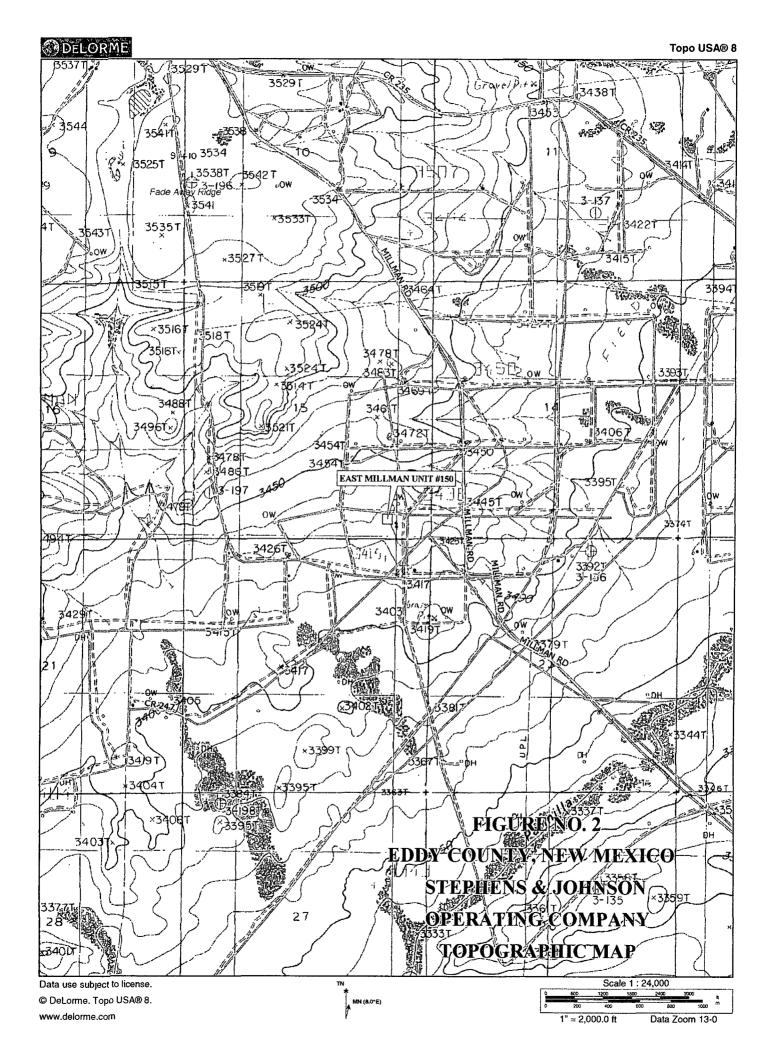
⁽⁻⁾ Not Analyzed

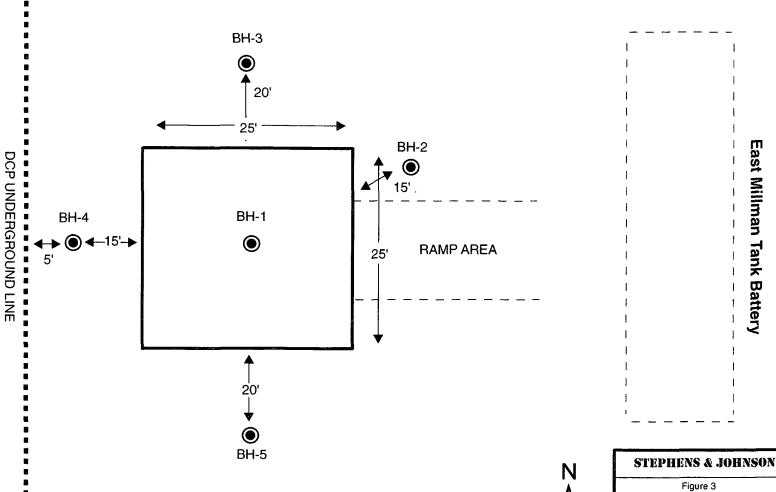
Table I STEPHENS & JOHNSON EAST MILLMAN TANK BATTERY EDDY COUNTY, NEW MEXICO

Sample	Date	Sample	Soil	Status		TPH (mg/kg	1)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Sampled	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-5	5/6/2010	0-1'	Х		<1.00	<50.00	<50.00	<0.0100	<0.0100	<0.0100	<0.0100	<200
		3-4'	Х		-	-	-	-	-	-	-	620
		7-8'	Х		-	-	-	-	-	-	-	421
		10-11'	Х		-	-	-	•	-	-		809
		15-16'	Х			-	-	-	-	-	-	644
		20-21'	Х				•	-	-		-	983
		30-31	х		-	-	-	-	-	-	-	1,130
		40-41	X		_	-	<u>-</u>	-	-	-	-	460
Background	5/5/2010	10'	х		-	-	-		-	_	-	<200
		20'	Х		-	-	-	-			-	<200
		30'	Х			-	-	-	-	-	-	289
		40'	Х		-	_	-	-	-		-	<200
		50'	Х		-			-	-	-	-	<200
_		60'	Х		-	-	<u>-</u>		-	-	-	<200

FIGURES







Millman Unit 150

Site Assessment Map Eddy County, New Mexico

NOT TO SCALE Project Number: 114-6400476

9-24-2010 H./GIS/114-6400476

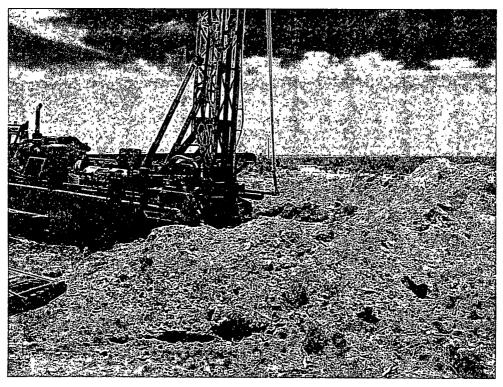


PHOTOGRAPHS

Stephens and Johnson - East Millman Unit Eddy County, New Mexico

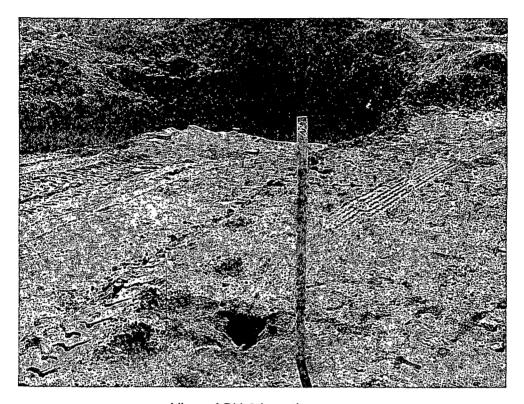


View of earthen pit area, after excavation

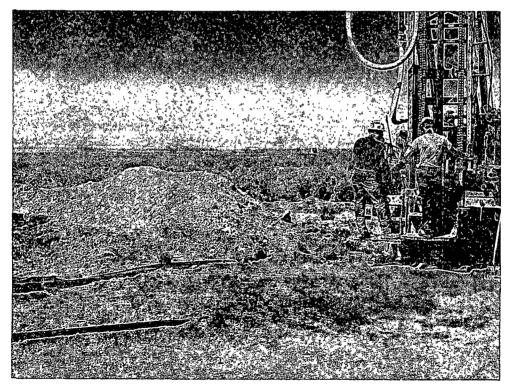


View of earthen pit area and BH-1

Stephens and Johnson - East Millman Unit Eddy County, New Mexico

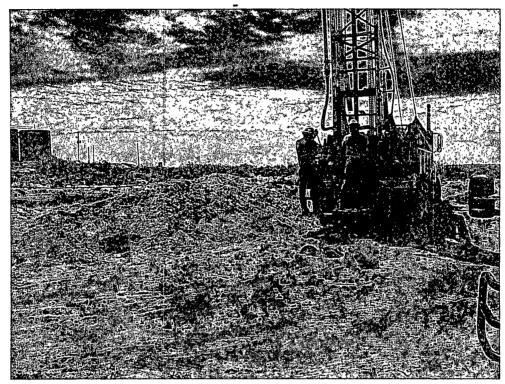


View of BH-2 Location

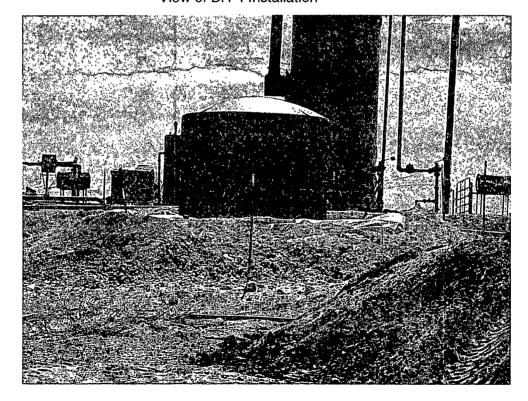


View of BH-3 Installation

Stephens and Johnson - East Millman Unit Eddy County, New Mexico



View of BH-4 Installation



View of new above tank installed for venting

APPENDIX A

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

State of New Mexico **Energy Minerals and Natural Resources**

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

Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

side of form

Release Natification and Corrective Action

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Nome of Co	mnany St	anhone & To	hngan O	perating Co.		OPERA Contact Mi			Initi	al Report		Final Report
		49, Wichita 1					No. (940) 723-2	166				
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Unit Letter	Section 15	Township 19S	Range 28E	Feet from the	North	/South Line	Feet from the	East/\	West Line	County Eddy		
		Lati	itude	32.65456		Longitud	e104.15868					
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Describe Cau	se of Proble	em and Remed	dial Actio	n Taken.*								
occur due to	vessel malfi		ergencies.	n Tank Battery, ware pit contained future.								
The earthen p	it measured	and Cleanup A l approximate ress the impac	ly 25' x 2	cen.* 5'. As per LOV N	lo. 02-0	9-132 the rain	n water and free o	il have	been remov	ved from the	pit. A	A work plan
regulations al public health should their or or the environ	I operators or the enviruperations homent. In a	are required to onment. The ave failed to a	o report an acceptane adequately OCD accep	is true and comp nd/or file certain rece of a C-141 report investigate and report otance of a C-141	elease rort by the emedia	notifications and the NMOCD mate to the contamination of the contaminati	nd perform correct arked as "Final R on that pose a thr	tive act eport" d eat to gi	ions for rele loes not reli round water	eases which the every the coper is a surface was	may e ator o ter, hi	endanger of liability uman health
Signature:	Will	2. W. K	wice	inc)			OIL CON	SERV	ATION	DIVISIO	N	
Printed Name	: William	M. Kincaid				Approved by	District Supervis	or:				
Title: Petrol	eum Engine	er				Approval Da	te:		Expiration	Date:		
E-mail Addre	ss: mkinca	aid@sjoc.net				Conditions of	f Approval:			Attached		
Date: 03/15/ * Attach Addi				40-723-2166					· · · · · · · · · · · · · · · · · · ·			

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Governor

Jon Goldstein Cabinet Secretary

Jim Noel
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



Response Required - Deadline Enclosed

Field Inspection Program

"Preserving the Integrity of Our En

23-Feb-10 STEPHENS & JOHNSON OP CO PO BOX 2249 ' WICHITA FALLS TX 76307

LETTER OF VIOLATION -

Dear Operator:

The following inspection(s) indicate that the well, equipment, location or operational status of the well(s) failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance. The detail section indicates preliminary findings and/or probable nature of the violation. This determinations based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division.

Please notify the proper district office, in writing, of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and /or facility.

INSPECTION DETAIL SECTION

EAST MILLMAN UNIT No.150

P-15-19S-28E **30-015-02257-00-00**

Inspection

Inspector

Violation? Non-Compliance?

*Significant Corrective
Action Due

Date Type Inspection

mspector

By: Inspection No.

02/23/2010 Routine/Periodic

Tim Gum

No

3/23/2010 iTWG10054465

Comments on Inspection:

NOTE: large amount of free oil standing in earthen pit located west of battery.

Yes

Numerous violations of OCD rules as follows: 1.) Rule 19.15.2; General Operations/Waste prohibited, 2.) 19.15.18; Tanks, 3.) 19.15.29; Release Notification, 4.) 19.15.17; Pits, and 4.) 19.15.36; Netting requirements.

Corrective action to be taken 1.) All free oil to be removed from pit, 2.) Submit a form C-141 along with a remediation and closure plan to address the contaminated area and the closure of the pit

Corrective action to be taken; oil removed immediately, form and plan by 3/23/10.



In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By:" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Divison Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of CIVIL PENALTIES for your violation of OCD rules.

Sincerely,

Artesia OCD District Office

Note: Information in Detail Section comes directly from field inspector data entries - not all blanks will contain data.

*Significant Non-Compliance events are reported directly to the EPA, Region VI, Dallas, Texas.

APPENDIX B

Water Well Data Average Depth to Groundwater (ft) Stephens and Johnson - Millman Tank Battery **Eddy County, New Mexico**

1	8 Sc	outh_	2	27 East			18 1	South	2	8 East			18 5	3outh	29) East	
5		4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
8		9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
17		16	15	14	13	18	17	16	15	14	13	18	17	16	15	14	13
20		21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
29		28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
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- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- NMOCD Groundwater Data 34
- 123 Field water level
- 143 NMOCD Groundwater map well location

APPENDIX C

Report Date: May 19, 2010 Work Order: 10051019 Page Number: 1 of 6

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: May 19, 2010

Work Order: 10051019

Project Location: Eddy County, NM

Project Name: Stephens & Johnson/East Millman TB

Project Number: 114-6400476

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
231048	BG-10'	soil	2010-05-05	00:00	2010-05-07
231049	BG-20'	soil	2010-05-05	00:00	2010-05-07
231050	BG-30'	soil	2010-05-05	00:00	2010-05-07
231051	BG-40'	soil	2010-05-05	00:00	2010-05-07
231052	BG-50'	soil	2010-05-05	00:00	2010-05-07
231053	BG-60'	soil	2010-05-05	00:00	2010-05-07
231054	BH-1 0-1'	soil	2010-05-05	00:00	2010-05-07
231055	BH-1 3-4'	soil	2010-05-05	00:00	2010-05-07
231056	BH-1 7-8'	soil	2010-05-05	00:00	2010-05-07
231057	BH-1 10-11'	soil	2010-05-05	00:00	2010-05-07
231058	BH-1 15-16'	soil	2010-05-05	00:00	2010-05-07
231059	BH-1 20-21'	soil	2010-05-05	00:00	2010-05-07
231067	BH-2 0-1'	soil	2010-05-05	00:00	2010-05-07
231068	BH-2 3-4'	soil	2010-05-05	00:00	2010-05-07
231069	BH-2 7-8'	soil	2010-05-05	00:00	2010-05-07
231070	BH-2 10-11'	soil	2010-05-05	00:00	2010-05-07
231071	BH-2 15-16'	soil	2010-05-05	00:00	2010-05-07
231072	BH-2 20-21'	soil	2010-05-05	00:00	2010-05-07
231076	BH-3 0-1'	soil	2010-05-06	00:00	2010-05-07
231077	BH-3 3-4'	soil	2010-05-06	00:00	2010-05-07
231078	BH-3 7-8'	soil	2010-05-06	00:00	2010-05-07
231079	BH-3 10-11'	soil	2010-05-06	00:00	2010-05-07
231080	BH-3 15-16'	soil	2010-05-06	00:00	2010-05-07
231081	BH-3 20-21'	soil	2010-05-06	00:00	2010-05-07
231084	BH-4 0-1'	soil	2010-05-06	00:00	2010-05-07
231085	BH-4 3-4'	soil	2010-05-06	00:00	2010-05-07
231086	BH-4 7-8'	soil	2010-05-06	00:00	2010-05-07
231087	BH-4 10-11'	soil	2010-05-06	00:00	2010-05-07
231088	BH-4 15-16'	soil	2010-05-06	00:00	2010-05-07
231089	BH-4 20-21'	soil	2010-05-06	00:00	2010-05-07

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
$2\overline{31095}$	BH-5 0-1'	soil	2010-05-06	00:00	2010-05-07
231096	BH-5 3-4'	soil	2010-05-06	00:00	2010-05-07
231097	BH-5 7-8'	soil	2010-05-06	00:00	2010-05-07
231098	BH-5 10-11'	soil	2010-05-06	00:00	2010-05-07
231099	BH-5 15-16'	soil	2010-05-06	00:00	2010-05-07
231100	BH-5 20-21'	soil	2010-05-06	00:00	2010-05-07

]	BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
231054 - BH-1 0-1'	0.816	1.35	1.16	3.49	404	1140
231067 - BH-2 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	177	< 1.00
231076 - BH-3 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 50.0	< 1.00
231084 - BH-4 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 50.0	< 1.00
231095 - BH-5 0-1'	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 50.0	< 1.00

Sample: 231048 - BG-10'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 231049 - BG-20'

Param	Flag	Result	Units	RL
Chloride		< 200	mg/Kg	4.00

Sample: 231050 - BG-30'

Param	Flag	Result	Units	RL
Chloride		289	mg/Kg	4.00

Sample: 231051 - BG-40'

Param	Flag	Result	\mathbf{Units}	RL
Chloride		<200	mg/Kg	4.00

Sample: 231052 - BG-50'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Report Date: May 19, 2010	Work Order: 10051019	Page	Number: 3 of 6
Sample: 231053 - BG-60'			
Param Flag	Result	Units	RL
Chloride	<200	mg/Kg	4.00
Sample: 231054 - BH-1 0-1'			
Param Flag	Result	Units	·RL
Chloride	<200	mg/Kg	4.00
Sample: 231055 - BH-1 3-4'			
Param Flag	Result	Units	RL
Chloride	246	mg/Kg	4.00
Sample: 231056 - BH-1 7-8'			
Param Flag	Result	\mathbf{Units}	RL
Chloride	398	mg/Kg	4.00
Sample: 231057 - BH-1 10-11'			
Param Flag	Result	Units	RL
Chloride	355	mg/Kg	4.00
Sample: 231058 - BH-1 15-16'			
Param Flag	Result	Units	RL
Chloride	617	mg/Kg	4.00
Sample: 231059 - BH-1 20-21'			
Param Flag	Result	Units	RL
Chloride	368	mg/Kg	4.00
Sample: 231067 - BH-2 0-1'			
Param Flag	Result	Units	m RL
Chloride	779	mg/Kg	4.00

Sample: 231068 - BH-2 3-4' Param Flag Chloride Flag	Result 913	Units mg/Kg	RL 4.00
	913		
		mg/Kg	4.00
	D. 1.		
Sample: 231069 - BH-2 7-8'	T) 1.		
Param Flag	Result	Units	RL
Chloride	435	mg/Kg	4.00
Sample: 231070 - BH-2 10-11'			
Param Flag	Result	Units	RL
Chloride	<200	mg/Kg	4.00
Sample: 231071 - BH-2 15-16'			
Param Flag	Result	$\mathbf{U}\mathbf{nits}$	RL
Chloride	621	mg/Kg	4.00
Sample: 231072 - BH-2 20-21'			
Param Flag	Result	Units	RL
Chloride	507	mg/Kg	4.00
Sample: 231076 - BH-3 0-1'			
Param Flag	Result	Units	RL
Chloride	<200	mg/Kg	4.00
Sample: 231077 - BH-3 3-4'			
Param Flag	Result	Units	RL
Chloride	1260	mg/Kg	4.00
Sample: 231078 - BH-3 7-8'			
Param Flag	Result	Units	m RL
Chloride	971	mg/Kg	4.00

Report Date: May 19, 2010	0 Work Order: 10051019		Page Number: 5 of 6		
Sample: 231079 - BH-3 10-11'					
Param Flag	Result	Units	RL		
Chloride	667	mg/Kg	4.00		
Sample: 231080 - BH-3 15-16'					
Param Flag	Result	Units	RL		
Chloride	<200	mg/Kg	4.00		
Sample: 231081 - BH-3 20-21'					
Param Flag	Result	Units	RL		
Chloride	<200	mg/Kg	4.00		
Sample: 231084 - BH-4 0-1'					
Param Flag	Result	Units	RL		
Chloride	<200	mg/Kg	4.00		
Sample: 231085 - BH-4 3-4'					
Param Flag	Result	Units	RL		
Chloride	247	mg/Kg	4.00		
Sample: 231086 - BH-4 7-8'					
Param Flag	Result	Units	RL		
Chloride	918	mg/Kg	4.00		
Sample: 231087 - BH-4 10-11'					
Param Flag	Result	Units	RL		
Chloride	1270	mg/Kg	4.00		
Sample: 231088 - BH-4 15-16'					
Param Flag	Result	Units	RL		

Report Date: May 19, 2010	Work Order: 10051019	Page	Page Number: 6 of 6		
Sample: 231089 - BH-4 20-21'					
Param Flag	Result	Units	· RL		
Chloride	575	mg/Kg	4.00		
Sample: 231095 - BH-5 0-1'					
Param Flag	Result	Units	RL		
Chloride	<200	mg/Kg	4.00		
Sample: 231096 - BH-5 3-4'					
Param Flag	Result	Units	RL		
Chloride	620	mg/Kg	4.00		
Sample: 231097 - BH-5 7-8'					
Param Flag	Result	Units	RL		
Chloride	421	mg/Kg	4.00		
Sample: 231098 - BH-5 10-11'					
Param Flag	Result	Units	RL		
Chloride	809	mg/Kg	4.00		
Sample: 231099 - BH-5 15-16'					
Param Flag	Result	Units	RL		
Chloride	644	mg/Kg	4.00		
Sample: 231100 - BH-5 20-21'					
Param Flag	Result	Units	RL		
Chloride	983	mg/Kg	4.00		



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Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX

LELAP-02003

Kansas E-10317

El Paso: T104704221-08-TX

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ike Tavarez Tetra Tech

1910 N. Big Spring Street Midland, TX, 79705

Report Date: May 19, 2010

Work Order: 10051019

Project Location: Eddy County, NM

Project Name:

Stephens & Johnson/East Millman TB

Project Number:

114-6400476

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	$_{ m 1} { m ime}$	Date
Sample	Description	Matrix	Taken	Taken	Received
231048	BG-10'	soil	2010-05-05	00:00	2010-05-07
231049	BG-20' .	soil	2010-05-05	00:00	2010-05-07
231050	BG-30'	soil	2010-05-05	00:00	2010-05-07
231051	BG-40'	soil	2010-05-05	00:00	2010-05-07
231052	BG-50'	soil	2010-05-05	00:00	2010-05-07
231053	BG-60'	soil	2010-05-05	00:00	2010-05-07
231054	BH-1 0-1'	soil	2010-05-05	00:00	2010-05-07
231055	BH-1 3-4'	soil	2010-05-05	00:00	2010-05-07
231056	BH-1 7-8'	soil	2010-05-05	00:00	2010-05-07
231057	BH-1 10-11'	soil	2010-05-05	00:00	2010-05-07

			Date	${f Time}$	Date
Sample	Description	Matrix	Taken	Taken	Received
$\overline{231058}$	BH-1 15-16'	soil	2010-05-05	00:00	2010-05-07
231059	BH-1 20-21'	soil	2010-05-05	00:00	2010-05-07
231067	BH-2 0-1'	soil	2010-05-05	00:00	2010-05-07
231068	BH-2 3-4'	soil	2010-05-05	00:00	2010-05-07
231069	BH-2 7-8'	soil	2010-05-05	00:00	2010-05-07
231070	BH-2 10-11'	soil	2010-05-05	00:00	2010-05-07
231071	BH-2 15-16'	soil	2010-05-05	00:00	2010-05-07
231072	BH-2 20-21'	soil	2010-05-05	00:00	2010-05-07
231076	BH-3 0-1'	soil	2010-05-06	00:00	2010-05-07
231077	BH-3 3-4'	soil	2010-05-06	00:00	2010-05-07
231078	BH-3 7-8'	soil	2010-05-06	00:00	2010-05-07
231079	BH-3 10-11'	soil	2010-05-06	00:00	2010-05-07
231080	BH-3 15-16'	soil	2010-05-06	00:00	2010-05-07
231081	BH-3 20-21'	soil	2010-05-06	00:00	2010-05-07
231084	BH-4 0-1'	soil	2010-05-06	00:00	2010-05-07
231085	BH-4 3-4'	soil	2010-05-06	00:00	2010-05-07
231086	BH-4 7-8'	soil	2010-05-06	00:00	2010-05-07
231087	BH-4 10-11'	soil	2010-05-06	00:00	2010-05-07
231088	BH-4 15-16'	soil	2010-05-06	00:00	2010-05-07
231089	BH-4 20-21'	soil	2010-05-06	00:00	2010-05-07
231095	BH-5 0-1'	soil	2010-05-06	00:00	2010-05-07
231096	BH-5 3-4'	soil	2010-05-06	00:00	2010-05-07
231097	BH-5 7-8'	soil	2010-05-06	00:00	2010-05-07
231098	BH-5 10-11'	soil	2010-05-06	00:00	2010-05-07
231099	BH-5 15-16'	soil	2010-05-06	00:00	2010-05-07
231100	BH-5 20-21'	soil	2010-05-06	00:00	2010-05-07

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Stephens & Johnson/East Millman TB were received by TraceAnalysis, Inc. on 2010-05-07 and assigned to work order 10051019. Samples for work order 10051019 were received intact at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	59862	2010-05-11 at 09:20	69934	2010-05-11 at 12:08
Chloride (Titration)	SM 4500-Cl B	60018	2010-05-17 at 08:48	70112	2010-05-17 at 16:58
Chloride (Titration)	SM 4500-Cl B	60019	2010-05-17 at 08:49	70113	2010-05-17 at 16:58
Chloride (Titration)	SM 4500-Cl B	60020	2010-05-17 at 08:49	70152	2010-05-18 at 15:54
Chloride (Titration)	SM 4500-Cl B	60022	2010-05-17 at 12:50	70153	2010-05-18 at 16:01
TPH DRO - NEW	S 8015 D	59834	2010-05-11 at 10:00	69902	2010-05-11 at 10:00
TPH GRO	S 8015 D	59862	2010-05-11 at 09:20	69936	2010-05-11 at 12:36

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10051019 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: May 19, 2010

114-6400476

Work Order: 10051019 Stephens & Johnson/East Millman TB Page Number: 4 of 30 Eddy County, NM

Analytical Report

Sample: 231048 - BG-10'

Laboratory:

Midland

Analysis:

Chloride (Titration)

QC Batch: 70112 60018 Prep Batch:

Analytical Method:

SM 4500-Cl B

Date Analyzed: 2010-05-17 Sample Preparation: 2010-05-17

N/A Prep Method:

Analyzed By: ARPrepared By: AR

RL

Parameter Chloride

Flag

Result < 200

Units mg/Kg Dilution 50

RL4.00

Sample: 231049 - BG-20'

Laboratory:

Midland

Analysis: QC Batch: Chloride (Titration)

70112 60018 Prep Batch:

Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-05-17 Sample Preparation: 2010-05-17

Prep Method: N/A Analyzed By:

ARPrepared By: AR

RL

Parameter Chloride

Flag

Result <200

Units mg/Kg Dilution 50 RL

4.00

Sample: 231050 - BG-30'

Laboratory:

Midland

Analysis: QC Batch:

Chloride (Titration)

70112 Prep Batch: 60018

Analytical Method:

Date Analyzed: Sample Preparation:

SM 4500-Cl B 2010-05-17

2010-05-17

Prep Method: Analyzed By: AR Prepared By: AR

RL

Parameter Chloride

Flag

Result 289

Units mg/Kg Dilution 50 RL

4.00

N/A

Sample: 231051 - BG-40'

Laboratory:

Midland

60018

Analysis: QC Batch:

Prep Batch:

Chloride (Titration) 70112

Sample Preparation:

Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-05-17 2010-05-17

Prep Method: N/A Analyzed By: AR Prepared By: AR

continued ...

Report Date: May 19, 2010 114-6400476

Work Order: 10051019

Stephens & Johnson/East Millman TB

sample 231051 continued ...

		RL			
Parameter	Flag	Result	Units	Dilution	RL
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 231052 - BG-50'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 70112 Prep Batch: 60018

Analytical Method: SM 4500-Cl B Date Analyzed: 2010-05-17 Sample Preparation: 2010-05-17

Prep Method: N/A Analyzed By: ARPrepared By: AR

Page Number: 5 of 30

Eddy County, NM

RLResult Units Dilution RLParameter Flag <200 4.00 Chloride mg/Kg 50

Sample: 231053 - BG-60'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 70112 Prep Batch: 60018

Analytical Method: SM 4500-Cl B Date Analyzed: 2010-05-17 Sample Preparation: 2010-05-17

Prep Method: N/A Analyzed By: ARPrepared By: AR

RLParameter Flag Result Units Dilution RL<200 Chloride mg/Kg 50 4.00

Sample: 231054 - BH-1 0-1'

Laboratory: Midland

Analysis: BTEX QC Batch: 69934 Prep Batch: 59862

Analytical Method: S 8021B Date Analyzed: 2010-05-11 Sample Preparation: 2010-05-11

Prep Method: S 5035 Analyzed By: AGPrepared By: \mathbf{AG}

		RL			
Parameter	Flag	\mathbf{Result}	Units	Dilution	m RL
Benzene		0.816	mg/Kg	20	0.0100
Toluene		1.35	${ m mg/Kg}$	20	0.0100
Ethylbenzene		1.16	mg/Kg	20	0.0100
Xylene		3.49	mg/Kg	20	0.0100

Report Date: May 19, 2010

114-6400476

Work Order: 10051019 Stephens & Johnson/East Millman TB Page Number: 6 of 30 Eddy County, NM

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		19.6	mg/Kg	20	20.0	98	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		21.6	mg/Kg	20	20.0	108	43.1 - 158.4
							

Sample: 231054 - BH-1 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 70112 Prep Batch: 60018

Analytical Method: SM 4500-Cl B Date Analyzed:

2010-05-17 Sample Preparation: 2010-05-17 Prep Method: N/A Analyzed By: AR

AR

Prepared By:

RLParameter Flag Result Dilution RLUnits <200 Chloride mg/Kg 50 4.00

Sample: 231054 - BH-1 0-1'

Laboratory:

Midland

Analysis: TPH DRO - NEW QC Batch: 69902 Prep Batch: 59834

Analytical Method: Date Analyzed:

Sample Preparation:

S 8015 D 2010-05-11 2010-05-11 Prep Method: N/A Analyzed By: kg Prepared By: kg

Parameter Flag Result Units Dilution RLDRO 404 50.0 mg/Kg 1 Recovery Spike Percent Flag Result Units Dilution Amount Recovery Limits Surrogate n-Tricosane 130 70 - 130 mg/Kg 1 100 130

Sample: 231054 - BH-1 0-1'

Laboratory:

Midland

Analysis: TPH GRO QC Batch: 69936 Prep Batch: 59862

Analytical Method: Date Analyzed:

Sample Preparation:

RL

S 8015 D 2010-05-11 2010-05-11 Prep Method: S 5035 Analyzed By: AG AG Prepared By:

RLFlag Result Dilution Parameter Units RLGRO 1140mg/Kg 20 1.00 Report Date: May 19, 2010 114-6400476

Flag

Parameter

Chloride

Result

355

Work Order: 10051019 Stephens & Johnson/East Millman TB Page Number: 7 of 30 Eddy County, NM

Dilution

50

RL

4.00

Units

mg/Kg

Commo modo		El.,	Result	Units	Dilution	Spike	Percent		overy nits
Surrogate Trifluorotolu	one (TET)	Flag	19.8	mg/Kg	20	Amount 20.0	Recovery 99		- 155
	robenzene (4-BFB)		$\frac{19.6}{24.6}$	mg/Kg mg/Kg	20	$\frac{20.0}{20.0}$	123		- 135 · 131.1
4-Diomondo	robenzene (4-b1 b)			mg/ Ng		20.0	120	01.7	101.1
Sample: 23	31055 - BH-1 3-4'								
Laboratory:	Midland								
Analysis:	Chloride (Titration)		Analy	ytical Method:	SM 450	0-Cl B	Prep M	fethod:	N/A
QC Batch:	70112			Analyzed:	2010-05	-17	Analyz		m AR
Prep Batch:	60018			ole Preparation			Prepar		AR
			RL						
Parameter	Flag		Result		Units		Dilution		RL
Chloride			246		mg/Kg		50		4.00
Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 70112 60018		Date	ytical Method: Analyzed: le Preparation	SM 450 2010-05 : 2010-05	-17	Prep M Analyz Prepar		N/A AR AR
			RL						
Parameter	Flag		Result		Units		Dilution		RL
Chloride			398		mg/Kg		50		4.00
Laboratory: Analysis:	1057 - BH-1 10-11' Midland Chloride (Titration)			ytical Method:	SM 4500		Prep M		N/A
QC Batch: Prep Batch:	70112 60018			Analyzed: le Preparation	2010-05 : 2010-05		Analyz Prepar	•	$rac{AR}{AR}$
rrep batch:	00010		-	de Freparation	. 2010-03	-11	riepar	eu by:	AN
			RL						

Report Date: May 19, 2010 114-6400476

Work Order: 10051019

Stephens & Johnson/East Millman TB

Sample: 231058 - BH-1 15-16'

Laboratory: Midland

Chloride (Titration) Analysis:

QC Batch: 70113 Prep Batch: 60019 Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-05-17 Sample Preparation: 2010-05-17

Prep Method: Analyzed By:

ARPrepared By: AR

N/A

Page Number: 8 of 30

Eddy County, NM

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		617	mg/Kg	50	4.00

Sample: 231059 - BH-1 20-21'

Laboratory: Midland

Chloride (Titration) Analysis: QC Batch: 70113 Prep Batch: 60019

Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-05-17 Sample Preparation: 2010-05-17

Prep Method: N/A Analyzed By:

ARPrepared By: AR

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		368	mg/Kg	50	4.00

Sample: 231067 - BH-2 0-1'

Laboratory: Midland .

Analysis: **BTEX** QC Batch: 69934 Prep Batch: 59862

Analytical Method: Date Analyzed:

S 8021B 2010-05-11 Sample Preparation: 2010-05-11 Prep Method: S 5035 Analyzed By:

AG

Prepared By: AG

RL

Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

					Spike	$\mathbf{Percent}$	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.66	mg/Kg	1	2.00	83	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		1.52	mg/Kg	1	2.00	76	43.1 - 158.4

Report Date: May 19, 2010

114-6400476

Work Order: 10051019

Stephens & Johnson/East Millman TB

Page Number: 9 of 30 Eddy County, NM

Sample: 231067 - BH-2 0-1'

Laboratory: Midland

Analysis:

Chloride (Titration)

QC Batch: 70113 Prep Batch: 60019

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B

2010-05-17

2010-05-17

Prep Method: N/A Analyzed By: AR

Prepared By: AR

RL

Parameter Flag Chloride

Result 779

Units mg/Kg Dilution 50

RL4.00

kg

RL

50.0

Sample: 231067 - BH-2 0-1'

Laboratory: Midland

Analysis: QC Batch:

Prep Batch: 59834

TPH DRO - NEW

69902

Analytical Method: Date Analyzed:

S 8015 D 2010-05-11 Sample Preparation: 2010-05-11 Prep Method: N/A Analyzed By: kg

Prepared By:

RL

Flag Result Parameter Units Dilution $\overline{\text{DRO}}$ 177 mg/Kg

					Spike	Percent	Recovery
Surrogate	Flag	Result	\mathbf{Units}	Dilution	Amount	Recovery	Limits
n-Tricosane		124	mg/Kg	1	100	124	70 - 130

Sample: 231067 - BH-2 0-1'

Laboratory:

Midland

Analysis: TPH GRO QC Batch: 69936 Prep Batch: 59862

Analytical Method: Date Analyzed:

Sample Preparation:

S 8015 D 2010-05-11 2010-05-11 Prep Method: S 5035 Analyzed By: AG

Prepared By: AG

RL

Parameter Result Dilution RLFlag Units GRO < 1.00 1.00 mg/Kg

					\mathbf{Spike}	Percent	Recovery
Surrogate	Flag	Result	\mathbf{Units}	Dilution	\mathbf{Amount}	Recovery	Limits
Trifluorotoluene (TFT)		1.74	mg/Kg	1	2.00	87	50.3 - 155
4-Bromofluorobenzene (4-BFB)		1.72	mg/Kg	1	2.00	86	51.7 - 131.1

114-6400476

Work Order: 10051019

Stephens & Johnson/East Millman TB

Page Number: 10 of 30 Eddy County, NM

Sample: 231068 - BH-2 3-4'

Laboratory:

QC Batch:

Midland

Analysis: Chloride (Titration)

70113 Prep Batch: 60019

Analytical Method: Date Analyzed:

SM 4500-Cl B

2010-05-17 Sample Preparation: 2010-05-17 Prep Method: N/A Analyzed By:

ARPrepared By: AR

RL

Result Dilution RLFlag Units Parameter Chloride $\overline{913}$ mg/Kg 50 4.00

Sample: 231069 - BH-2 7-8'

Laboratory:

Midland

Chloride (Titration) Analysis: QC Batch: 70113 Prep Batch: 60019

Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-05-17 2010-05-17

Prep Method: N/A

Analyzed By: ARPrepared By: AR

RL

Result RLUnits Dilution Parameter Flag 435 mg/Kg $\overline{50}$ 4.00 Chloride

Sample Preparation:

Sample: 231070 - BH-2 10-11'

Laboratory: Midland

Chloride (Titration) Analysis: QC Batch: 70113 60019 Prep Batch:

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2010-05-17 2010-05-17

Prep Method: Analyzed By:

ARPrepared By: AR

N/A

RL

Flag Result Units Dilution RLParameter <200 4.0050 Chloride mg/Kg

Sample: 231071 - BH-2 15-16'

Laboratory:

Midland

Chloride (Titration) Analysis: QC Batch: 70113 60019 Prep Batch:

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2010-05-17 2010-05-17

Prep Method: N/A Analyzed By: ARPrepared By: AR

RL

Parameter Flag Result Units Dilution RL621 50 4.00 Chloride mg/Kg

114-6400476

Work Order: 10051019

Stephens & Johnson/East Millman TB

Page Number: 11 of 30 Eddy County, NM

Sample: 231072 - BH-2 20-21'

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 70113 Prep Batch: 60019

Analytical Method: SM 4500-Cl B Date Analyzed:

2010-05-17 Sample Preparation: 2010-05-17 Prep Method: N/A Analyzed By: AR

AR

Prepared By:

RL

Flag Parameter Result Units Dilution RLChloride 507 mg/Kg 4.00 50

Sample: 231076 - BH-3 0-1'

Laboratory: Midland

Analysis: **BTEX** QC Batch: 69934 Prep Batch: 59862

Analytical Method: S 8021B Date Analyzed: 2010-05-11

Sample Preparation: 2010-05-11

RL

Prep Method: S 5035

Analyzed By: AG Prepared By: AG

Flag Parameter Result Units Dilution RLBenzene < 0.0100 0.0100 mg/Kg 1 Toluene < 0.0100 mg/Kg 1 0.0100Ethylbenzene < 0.0100 mg/Kg 1 0.0100Xylene < 0.0100 1 0.0100mg/Kg

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.23	mg/Kg	1	2.00	62	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	2.00	54	43.1 - 158.4

Sample: 231076 - BH-3 0-1'

Laboratory:

Prep Batch:

Midland

Analysis: Chloride (Titration) QC Batch:

70113 60019

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2010-05-17 2010-05-17

Prep Method: N/A Analyzed By: \mathbf{AR} Prepared By: AR

RL

Parameter Flag Result Units Dilution RL<200 4.00 Chloride mg/Kg 50

Report Date: May 19, 2010 114-6400476

Work Order: 10051019 Stephens & Johnson/East Millman TB

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Sample: 231076 - BH-3 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 69902 Prep Batch: 59834 Analytical Method: Date Analyzed:

S 8015 D 2010-05-11 Prep Method: N/A Analyzed By:

Sample Preparation: 2010-05-11

kg Prepared By: kg

RL

Parameter	Flag	Result	Units	Dilution	RL
DRO		< 50.0	mg/Kg	1	50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		88.9	mg/Kg	1	100	89	70 - 130

Sample: 231076 - BH-3 0-1'

Laboratory: Midland

TPH GRO Analysis: QC Batch: 69936 Prep Batch: 59862

Analytical Method: S 8015 D Date Analyzed:

2010-05-11 Sample Preparation: 2010-05-11 Prep Method: S 5035

Analyzed By: AG \mathbf{AG} Prepared By:

RL

Parameter	Flag	Result	$\mathbf{U}\mathbf{nits}$	Dilution	RL
$\overline{\mathrm{G}}\mathrm{RO}$		<1.00	mg/Kg	1	1.00

					Spike	Percent	$\operatorname{Recovery}$
Surrogate	Flag	Result	\mathbf{Units}	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.23	mg/Kg	1	2.00	62	50.3 - 155
4-Bromofluorobenzene (4-BFB)		1.22	mg/Kg	1	2.00	61	51.7 - 131.1

Sample: 231077 - BH-3 3-4'

Laboratory: Midland

Prep Batch:

Analysis: Chloride (Titration) QC Batch: 70113 60019

Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-05-17 Sample Preparation: 2010-05-17

Prep Method: N/A Analyzed By: ARPrepared By:

AR

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		1260	mg/Kg	50	4.00

114-6400476

Work Order: 10051019

Stephens & Johnson/East Millman TB

Page Number: 13 of 30 Eddy County, NM

Sample: 231078 - BH-3 7-8'

Laboratory:

Midland

Analysis: QC Batch:

Chloride (Titration)

Flag

Analytical Method: Date Analyzed:

SM 4500-Cl B

Prep Method: N/A Analyzed By: AR

70152 Prep Batch: 60020

Sample Preparation:

2010-05-18 2010-05-17

Prepared By: AR

RL

Parameter Chloride

Result 971

Units mg/Kg

RL4.00

Sample: 231079 - BH-3 10-11'

Laboratory:

Midland

Analysis:

Chloride (Titration)

Analytical Method:

SM 4500-Cl B

N/A Prep Method:

QC Batch: Prep Batch:

70152 60020 Date Analyzed: Sample Preparation:

2010-05-18 2010-05-17

Analyzed By: AR. Prepared By: AR

RL

Parameter Chloride

Flag

Result 667

Units mg/Kg Dilution 50

Dilution

50

RL

4.00

Sample: 231080 - BH-3 15-16'

Laboratory:

Midland

Analysis:

Chloride (Titration)

Analytical Method: Date Analyzed:

SM 4500-Cl B

Prep Method:

QC Batch: Prep Batch:

70152 60020

2010-05-18 Sample Preparation: 2010-05-17

Analyzed By: ARPrepared By: AR

Parameter

RL

Flag

Chloride

Result <200

Units mg/Kg Dilution 50

RL4.00

N/A

N/A

Sample: 231081 - BH-3 20-21'

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch: 70152

Analytical Method:

SM 4500-Cl B 2010-05-18

Prep Method: Analyzed By:

Prep Batch: 60020

Date Analyzed: Sample Preparation:

2010-05-17

ARPrepared By: AR

RL

Parameter Flag Result Units Dilution RLChloride < 200 mg/Kg 50 4.00 Report Date: May 19, 2010 Work Order: 10051019 Page Number: 14 of 30 114-6400476 Stephens & Johnson/East Millman TB Eddy County, NM

Sample: 231084 - BH-4 0-1'

Laboratory: Midland

Analytical Method: Analysis: **BTEX** S 8021BPrep Method: S 5035 QC Batch: 69934 Date Analyzed: 2010-05-11 Analyzed By: AGPrep Batch: 59862 Sample Preparation: Prepared By: AG2010-05-11

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

					Spike	$\operatorname{Percent}$	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.31	mg/Kg	1	2.00	66	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		0.914	mg/Kg	1	2.00	46	43.1 - 158.4

Sample: 231084 - BH-4 0-1'

Laboratory: Midland

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A QC Batch: 70152 Date Analyzed: 2010-05-18 Analyzed By: ARPrep Batch: 60020 Sample Preparation: 2010-05-17 Prepared By: AR

Sample: 231084 - BH-4 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW Prep Method: N/A Analytical Method: S 8015 D QC Batch: Analyzed By: 69902 Date Analyzed: 2010-05-11 kg Prep Batch: 59834 Sample Preparation: 2010-05-11 Prepared By: kg

					Spike	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		89.7	mg/Kg	1	100	90	70 - 130

Report Date: May 19, 2010 114-6400476

Work Order: 10051019 Stephens & Johnson/East Millman TB Page Number: 15 of 30

Eddy County, NM

Sample: 231084 - BH-4 0-1'

Laboratory: Midland

Analysis: TPH GRO QC Batch: 69936 Prep Batch: 59862

Analytical Method: Date Analyzed: Sample Preparation:

S 8015 D 2010-05-11 2010-05-11 Prep Method: S 5035 Analyzed By: AGPrepared By: AG

RL

Parameter	Flag	Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.37	mg/Kg	1	2.00	68	50.3 - 155
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	2.00	54	51.7 - 131.1

Sample: 231085 - BH-4 3-4'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch:

70152 Prep Batch: 60020

Analytical Method: SM 4500-Cl B Date Analyzed: 2010-05-18 Sample Preparation: 2010-05-17

Prep Method: N/A Analyzed By: ARPrepared By: AR

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		247	mg/Kg	50	4.00

Sample: 231086 - BH-4 7-8'

Laboratory:

Midland

Chloride (Titration) Analysis: QC Batch: 70152 60020 Prep Batch:

Analytical Method: Date Analyzed:

Sample Preparation:

RL

SM 4500-Cl B 2010-05-18 2010-05-17

N/A Prep Method: Analyzed By: AR. Prepared By: AR

Parameter	Flag	Result	Units	Dilution	RL
Chloride		918	mg/Kg	50	4.00

Sample: 231087 - BH-4 10-11'

Laboratory: Midland

Analysis: Chloride (Titration) QC Batch: 70152 Prep Batch: 60020

Analytical Method: SM 4500-Cl B Date Analyzed: 2010-05-18 Sample Preparation: 2010-05-17

N/A Prep Method: Analyzed By: AR Prepared By: AR

114-6400476

Work Order: 10051019 Stephens & Johnson/East Millman TB Page Number: 16 of 30 Eddy County, NM

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		1270	mg/Kg	50	4.00

Sample: 231088 - BH-4 15-16'

Laboratory:

Midland

Analysis: Chloride (Titration)

QC Batch: 70152 Prep Batch: 60020

Analytical Method: SM 4500-Cl B Date Analyzed: 2010-05-18

Sample Preparation: 2010-05-17

Prep Method: N/A Analyzed By: ARPrepared By: AR

RL

Parameter	Flag	Result	Units	Dilution	RL_{-}
Chloride		628	mg/Kg	50	4.00

Sample: 231089 - BH-4 20-21'

Laboratory: Midland

Chloride (Titration) Analysis: QC Batch: 70152

Analytical Method: Date Analyzed:

SM 4500-Cl B 2010-05-18

Prep Method: N/A Analyzed By: AR

Prep Batch: 60020

Sample Preparation: 2010-05-17

Prepared By: AR

RL

Parameter	Flag	Result	Units	Dilution	m RL
Chloride		575	mg/Kg	50	4.00

Sample: 231095 - BH-5 0-1'

Laboratory: Midland

BTEX Analysis: QC Batch: 69934 Prep Batch: 59862

Analytical Method: Date Analyzed: Sample Preparation: 2010-05-11

S 8021B 2010-05-11 Prep Method: S 5035 Analyzed By: \mathbf{AG} Prepared By: AG

RL

Parameter	Flag	Result	\mathbf{Units}	Dilution	RL
Benzene		< 0.0100	mg/Kg	1	0.0100
Toluene		< 0.0100	mg/Kg	1	0.0100
Ethylbenzene		< 0.0100	mg/Kg	1	0.0100
Xylene		< 0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	60.4 - 141.2
4-Bromofluorobenzene (4-BFB)		1.84	mg/Kg	1	2.00	92	43.1 - 158.4

Report Date: May 19, 2010 114-6400476

Work Order: 10051019 Page Number: 17 of 30 Stephens & Johnson/East Millman TB Eddy County, NM

Sample: 231095 - BH-5 0-1'

Laboratory: Midland

Chloride (Titration) Analysis:

QC Batch: 70153 Prep Batch: 60022 Analytical Method:

SM 4500-Cl B 2010-05-18

Date Analyzed: Sample Preparation: 2010-05-17 Prep Method: N/A Analyzed By: AR

Prepared By: AR

RL

RL

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		< 200	mg/Kg	50	4.00

Sample: 231095 - BH-5 0-1'

Laboratory: Midland

Analysis: TPH DRO - NEW

QC Batch: 69902 Prep Batch: 59834

Analytical Method: S 8015 D Date Analyzed: 2010-05-11 Sample Preparation: 2010-05-11

Prep Method: N/A Analyzed By: kg Prepared By: kg

Parameter Flag Result Units Dilution RLDRO < 50.0 mg/Kg 50.0

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		88.1	mg/Kg	1	100	88	70 - 130

Sample: 231095 - BH-5 0-1'

Midland Laboratory:

Analysis: TPH GRO QC Batch: 69936 Prep Batch: 59862

Analytical Method: S 8015 D Date Analyzed: 2010-05-11 Sample Preparation: 2010-05-11

Prep Method: S 5035 Analyzed By: AGPrepared By: AG

Parameter Flag Result Units Dilution RL $\overline{\text{GRO}}$ <1.00 mg/Kg 1.00

					\mathbf{Spike}	Percent	Recovery
Surrogate	\mathbf{Flag}	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.08	mg/Kg	1	2.00	104	50.3 - 155
4-Bromofluorobenzene (4-BFB)		2.06	mg/Kg	1	2.00	103	51.7 - 131.1

Work Order: 10051019

Stephens & Johnson/East Millman TB

Page Number: 18 of 30 Eddy County, NM

Sample: 231096 - BH-5 3-4'

Laboratory: Midland

114-6400476

Analysis: Chloride (Titration)

QC Batch: 70153 Prep Batch: 60022 Analytical Method: SM 4500-Cl B

Date Analyzed: Sample Preparation: 2010-05-18

2010-05-17

Prep Method: Analyzed By:

AR. Prepared By: AR

N/A

AR

AR

RL

4.00

RL

Flag Result Units Dilution RLParameter 620 4.00Chloride mg/Kg 50

Sample: 231097 - BH-5 7-8'

Laboratory: Midland

Chloride (Titration) Analysis:

QC Batch: 70153 Prep Batch: 60022 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2010-05-18 2010-05-17

Prep Method: N/A Analyzed By: ARPrepared By:

RL

Dilution Parameter Flag Result Units RLChloride 421 mg/Kg 50 4.00

Sample: 231098 - BH-5 10-11'

60022

Laboratory:

Prep Batch:

Midland

Analysis: Chloride (Titration) QC Batch: 70153

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2010-05-18 2010-05-17

Prep Method: N/A Analyzed By: AR

Prepared By:

RLResult Units Dilution RLParameter Flag 809 50 4.00 Chloride mg/Kg

Sample: 231099 - BH-5 15-16'

Laboratory:

Parameter

Chloride

Midland

Analysis: Chloride (Titration)

QC Batch: 70153 Prep Batch: 60022 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2010-05-18 2010-05-17

Prep Method: N/A Analyzed By: ARPrepared By: AR

Flag

RLResult 644

Units mg/Kg Dilution 50

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Work Order: 10051019

Stephens & Johnson/East Millman TB

Page Number: 19 of 30 Eddy County, NM

Sample: 231100 - BH-5 20-21'

Laboratory: Midland

Chloride (Titration) Analysis:

Analytical Method: 70153 Date Analyzed:

SM 4500-Cl B

2010-05-18

Prep Method: N/A Analyzed By: AR

QC Batch: Prep Batch: 60022

Sample Preparation: 2010-05-17

Prepared By: AR

RL

Parameter	Flag	Result	Units	Dilution	. RL
Chloride		983	mg/Kg	50	4.00

Method Blank (1) QC Batch: 69902

QC Batch: 69902 Date Analyzed:

2010-05-11

Analyzed By: kg

Prep Batch: 59834

QC Preparation:

2010-05-11

Prepared By: kg

MDL

Parameter	Flag	Result	Units	RL
DRO		< 5.86	mg/Kg	50

					\mathbf{Spike}	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Tricosane		78.8	mg/Kg	1	100	79	70 - 130

Method Blank (1) QC Batch: 69934

QC Batch: 69934

Date Analyzed:

2010-05-11

Analyzed By: AG Prepared By: AG

Prep Batch: 59862

QC Preparation: 2010-05-11

MDL

Parameter	Flag	Result	\mathbf{Units}	RL
Benzene		< 0.00410	mg/Kg	0.01
Toluene		< 0.00310	${ m mg/Kg}$	0.01
Ethylbenzene		< 0.00240	mg/Kg	0.01
Xylene		< 0.00650	mg/Kg	0.01

			·		Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		2.01	mg/Kg	1	2.00	100	64.9 - 142.7
4-Bromofluorobenzene (4-BFB)		1.56	mg/Kg	1	2.00	78	43.9 - 141.9

Report Date: May 19, 2010 114-6400476

Work Order: 10051019 Page Number: 20 of 30 Eddy County, NM Stephens & Johnson/East Millman TB

Method Blank (1)

QC Batch: 69936

QC Batch: Prep Batch: 59862

69936

Date Analyzed:

2010-05-11

QC Preparation: 2010-05-11

Analyzed By: AG

Prepared By: \mathbf{AG}

MDL

Flag Result Parameter Units RL< 0.396 GRO mg/Kg 1

					Spike	Percent	Recovery
Surrogate	Flag	\mathbf{Result}	\mathbf{Units}	Dilution	${f Amount}$	Recovery	Limits
Trifluorotoluene (TFT)		2.00	mg/Kg	1	2.00	100	66.2 - 145
4-Bromofluorobenzene (4-BFB)		1.74	${ m mg/Kg}$	1	2.00	87	62 - 120.5

Method Blank (1)

QC Batch: 70112

QC Batch:

70112

Date Analyzed:

2010-05-17

Analyzed By: AR

Prep Batch: 60018

QC Preparation:

2010-05-17

Prepared By: AR

4

RL

4

Parameter Chloride

Flag

MDL

Result

< 2.18

Units RL

Method Blank (1)

QC Batch: 70113

QC Batch:

70113

Date Analyzed:

2010-05-17

Analyzed By: AR

Prep Batch:

60019

QC Preparation:

2010-05-17

Prepared By: AR.

Parameter

Chloride

Flag

MDL Result

Units < 2.18mg/Kg

Method Blank (1)

QC Batch: 70152

QC Batch:

70152

Prep Batch: 60020

Date Analyzed:

2010-05-18

QC Preparation: 2010-05-17 Analyzed By: AR

Prepared By: AR

mg/Kg

MDL

Parameter Flag Result Units RL< 2.18 Chloride mg/Kg

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Work Order: 10051019

Stephens & Johnson/East Millman TB

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Method Blank (1)

QC Batch: 70153

QC Batch: Prep Batch: 60022

70153

Date Analyzed:

2010-05-18

QC Preparation: 2010-05-17

Analyzed By: AR

Prepared By: AR

MDL

Parameter	Flag	Result	Units	RL
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 59834

69902

Date Analyzed:

2010-05-11

QC Preparation: 2010-05-11 Analyzed By: kg

Prepared By: kg

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	Limit
DRO	255	mg/Kg	1	250	< 5.86	102	57.4 - 133.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO	266	mg/Kg	1	250	< 5.86	106	57.4 - 133.4	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			\mathbf{S} pike	LCS	LCSD	Rec .
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	85.4	88.7	mg/Kg	1	100	85	89	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch:

69934 Prep Batch: 59862 Date Analyzed:

2010-05-11

QC Preparation: 2010-05-11

Analyzed By: AG

Prepared By: \mathbf{AG}

	LCS			$_{ m Spike}$	Matrix		${ m Rec.}$
Param	Result	Units	Dil .	Amount	Result	Rec.	${f Limit}$
Benzene	1.98	mg/Kg	1	2.00	< 0.00410	99	75.4 - 115.7
Toluene	1.97	mg/Kg	1	2.00	< 0.00310	98	78.4 - 113.6
Ethylbenzene	1.90	mg/Kg	1	2.00	< 0.00240	95	76 - 114.2
Xylene	5.70	mg/Kg	1	6.00	< 0.00650	95	76.9 - 113.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene	1.94	mg/Kg	1	2.00	< 0.00410	97	75.4 - 115.7	2	20

continued ...

114-6400476

Work Order: 10051019 Stephens & Johnson/East Millman TB Page Number: 22 of 30 Eddy County, NM

control spikes continued ...

	LCSD			Spike	Matrix		$\mathrm{Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
Toluene	1.93	mg/Kg	1	2.00	< 0.00310	96	78.4 - 113.6	2	20
Ethylbenzene	1.88	mg/Kg	1	2.00	< 0.00240	94	76 - 114.2	1	20
Xylene	5.63	mg/Kg	1	6.00	< 0.00650	94	76.9 - 113.6	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

_	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	\mathbf{Result}	$\mathbf{U}\mathbf{nits}$	Dil.	${f Amount}$	${ m Rec.}$	${ m Rec.}$	${f Limit}$
Trifluorotoluene (TFT)	2.00	1.86	mg/Kg	1	2.00	100	93	65 - 142.9
4-Bromofluorobenzene (4-BFB)	1.88	1.75	mg/Kg	1	2.00	94	88	43.8 - 144.9

Laboratory Control Spike (LCS-1)

QC Batch:

Date Analyzed:

2010-05-11

Analyzed By: AG

Prep Batch: 59862

QC Preparation: 2010-05-11

Prepared By: AG

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
GRO	15.2	mg/Kg	1	20.0	< 0.396	76	52.5 - 114.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
GRO	15.8	mg/Kg	1 .	20.0	< 0.396	79	52.5 - 114.3	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	${ m Rec.}$
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.03	1.80	mg/Kg	1	2.00	102	90	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	2.00	1.78	mg/Kg	1	2.00	100	89	64.1 - 127.4

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 60018

70112

Date Analyzed: QC Preparation: 2010-05-17

2010-05-17

Analyzed By: AR Prepared By: AR

	LCS			\mathbf{Spike}	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	98.1	mg/Kg	1	100	<2.18	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	\mathbf{Limit}
Chloride	99.7	mg/Kg	1	100	<2.18	100	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 70113

Date Analyzed:

2010-05-17

Analyzed By: AR Prepared By: AR

Prep Batch: 60019

QC Preparation: 2010-05-17

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit Chloride 98.498 mg/Kg 100 < 2.1885 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix	i	Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
Chloride	101	mg/Kg	1	100	< 2.18	101	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch:

70152

Date Analyzed:

2010-05-18

Analyzed By: AR

Prep Batch:

60020

QC Preparation:

2010-05-17

Prepared By: AR

	$_{ m LCS}$			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	99.2	mg/Kg	1	100	< 2.18	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit	RPD	\mathbf{Limit}
Chloride	101	mg/Kg	1	100	< 2.18	101	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch:

70153

Date Analyzed:

2010-05-18

Analyzed By: AR

Prep Batch: 60022

QC Preparation:

2010-05-17

Prepared By: AR

continued ...

Report Date: May 19, 2010 114-6400476

Work Order: 10051019

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control spikes continued ...

	$_{ m LCS}$			$_{ m Spike}$	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	99.3	mg/Kg	1	100	< 2.18	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	\mathbf{Limit}
Chloride	102	mg/Kg	1	100	< 2.18	102	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1)

Spiked Sample: 231095

QC Batch:

69902

Date Analyzed:

2010-05-11

Analyzed By: kg

Prep Batch: 59834

QC Preparation:

2010-05-11

Prepared By:

	MS		•	Spike	Matrix		Rec.
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit
DRO	203	mg/Kg	1	250	7.29	78	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
DRO	210	mg/Kg	1	250	7.29	81	35.2 - 167.1	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	${ m Rec.}$
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Tricosane	82.8	83.2	mg/Kg	1	100	83	83	70 - 130

Matrix Spike (MS-1)

Spiked Sample: 231095

QC Batch:

69934

Date Analyzed:

2010-05-11

Analyzed By: AG

Prep Batch: 59862

QC Preparation: 2010-05-11

Prepared By: AG

	MS			Spike	Matrix		${ m Rec.}$
Param	Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	\mathbf{Limit}
Benzene	2.01	mg/Kg	1	2.00	< 0.00410	100	57.7 - 140.7
Toluene	2.04	mg/Kg	1	2.00	< 0.00310	102	53.4 - 146.6
Ethylbenzene	2.01	${ m mg/Kg}$	1	2.00	< 0.00240	100	62.1 - 141.6
Xylene	6.07	mg/Kg	1	6.00	< 0.00650	101	61.2 - 142.7

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.27	mg/Kg	1	2.00	< 0.00410	114	57.7 - 140.7	12	20
Toluene	2.30	mg/Kg	1	2.00	< 0.00310	115	53.4 - 146.6	12	20
Ethylbenzene	2.27	mg/Kg	1	2.00	< 0.00240	114	62.1 - 141.6	12	20
Xylene	6.82	mg/Kg	1	6.00	< 0.00650	114	61.2 - 142.7	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	${ m Rec.}$
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	\mathbf{Limit}
Trifluorotoluene (TFT)	1.53	1.44	mg/Kg	1	2	76	72	61.7 - 139.6
4-Bromofluorobenzene (4-BFB)	1.44	1.34	mg/Kg	1	2	72	67	49.6 - 146.7

Matrix Spike (MS-1) Spiked Sample: 230972

QC Batch: 69936 Prep Batch: 59862 Date Analyzed: 2010-05-11 QC Preparation: 2010-05-11

Analyzed By: AG Prepared By: AG

	MS			\mathbf{Spike}	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	28.6	mg/Kg	1	20.0	8.37	101	10 - 198.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil .	Amount	Result	Rec.	Limit	RPD	Limit
GRO	1	22.9	mg/Kg	1	20.0	8.37	114	10 - 198.3	22	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			$_{ m Spike}$	MS	MSD	${ m Rec.}$
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.87	1.56	mg/Kg	1	2	94	78	65.5 - 143
4-Bromofluorobenzene (4-BFB)	2.18	1.68	mg/Kg	1	2	109	84	58.6 - 140

Matrix Spike (MS-1) Spiked Sample: 231057

QC Batch: 70112 Prep Batch: 60018 Date Analyzed: 2010-05-17 QC Preparation: 2010-05-17

Analyzed By: AR Prepared By: AR

	MS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	10200	mg/Kg	100	10000	355	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

¹MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

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	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	\mathbf{Limit}
Chloride	10400	mg/Kg	100	10000	355	100	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1)

Spiked Sample: 231077

QC Batch: 70113

Date Analyzed:

2010-05-17

Analyzed By: AR

Prep Batch: 60019

QC Preparation:

2010-05-17

Prepared By: AR

	MS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	11300	mg/Kg	100	10000	1260	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	11400	mg/Kg	100	10000	1260	101	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1)

Spiked Sample: 231089

QC Batch: 70152

Date Analyzed:

2010-05-18

Analyzed By: AR

Prep Batch: 60020

QC Preparation:

2010-05-17

Prepared By: AR

	MS			Spike	Matrix		Rec .
Param	Result	Units	Dil.	Amount	Result	${ m Rec.}$	Limit
Chloride	10800	mg/Kg	100	10000	575	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
Chloride	11000	mg/Kg	100	10000	575	104	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1)

Spiked Sample: 231283

QC Batch:

Date Analyzed:

2010-05-18

Analyzed By: ARAR

Prep Batch: 60022

QC Preparation: 2010-05-17

Prepared By:

continued ...

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Work Order: 10051019

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Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12800	mg/Kg	100	10000	2750	100	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			\mathbf{Spike}	Matrix		${f Rec}.$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	12900	${ m mg/Kg}$	100	10000	2750	102	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-1)

QC Batch: 69902

Date Analyzed: 2010-05-11

Analyzed By: kg

			CCVs	CCVs	CCVs	Percent	D (
			True	Found	$\mathbf{Percent}$	Recovery	Date
Param	Flag	\mathbf{Units}	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	259	104	80 - 120	2010-05-11

Standard (CCV-2)

QC Batch: 69902

Date Analyzed: 2010-05-11

Analyzed By: kg

			CCVs True	CCVs	CCVs	Percent	Date
Param	Flag	Units	Conc.	Found Conc.	Percent Recovery	Recovery Limits	Analyzed
DRO	0	mg/Kg	250	222	89	80 - 120	2010-05-11

Standard (CCV-3)

QC Batch: 69902

Date Analyzed: 2010-05-11

Analyzed By: kg

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	\mathbf{Date}
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	219	88	80 - 120	2010-05-11

Standard (CCV-1)

QC Batch: 69934

Date Analyzed: 2010-05-11

Analyzed By: AG

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0941	94	80 - 120	2010-05-11
Toluene		mg/Kg	0.100	0.0913	91	80 - 120	2010-05-11
Ethylbenzene		mg/Kg	0.100	0.0833	83	80 - 120	2010-05-11
Xylene		mg/Kg	0.300	0.251	84	80 - 120	2010-05-11

Standard (CCV-2)

QC Batch: 69934

Date Analyzed: 2010-05-11

Analyzed By: AG

			$rac{ ext{CCVs}}{ ext{True}}$	${ m CCVs} \ { m Found}$	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0983	98	80 - 120	2010-05-11
Toluene		mg/Kg	0.100	0.0967	97	80 - 120	2010-05-11
Ethylbenzene		mg/Kg	0.100	0.0915	92	80 - 120	2010-05-11
Xylene		mg/Kg	0.300	0.276	92	80 - 120	2010-05-11

Standard (CCV-1)

QC Batch: 69936

Date Analyzed: 2010-05-11

Analyzed By: AG

			CCVs True	CCVs Found	$rac{ ext{CCVs}}{ ext{Percent}}$	Percent Recovery	Date
Param	\mathbf{F} lag	\mathbf{U} nits	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.03	103	80 - 120	2010-05-11

Standard (CCV-2)

QC Batch: 69936

Date Analyzed: 2010-05-11

Analyzed By: AG

			CCVs	CCVs	CCVs	$\operatorname{Percent}$	•
			True	Found	Percent	Recovery	Date
Param	. Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.922	92 .	80 - 120	2010-05-11

Standard (ICV-1)

QC Batch: 70112

Date Analyzed: 2010-05-17

Analyzed By: AR

Report Date: May 19, 2010 114-6400476

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			ICVs	ICVs	ICVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Chloride	<u>_</u>	mg/Kg	100	99.4	99	85 - 115	2010-05-17	
Standard ((CCV-1)							
QC Batch:	70112		Date Ana	lyzed: 2010-05	5-17	Anal	yzed By: AR	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	\mathbf{Flag}	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Chloride		mg/Kg	100	101	101	85 - 115	2010-05-17	
Standard ((ICV-1)							
QC Batch:	70113		Date Analyzed: 2010-05-17			Analyzed By: A		
			ICVs	ICVs	ICVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Chloride		mg/Kg	100	101	101	85 - 115	2010-05-17	
Standard ((CCV-1)							
QC Batch:	70113		Date Ana	lyzed: 2010-05	5-17	Anal	Analyzed By: AR	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
Chloride		mg/Kg	100	98.6	99	85 - 115	2010-05-17	
Standard ((ICV-1)							
QC Batch:	70152		Date Analyzed: 2010-05-18			Anal	yzed By: AR	
			ICVs	ICVs	ICVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	\mathbf{Flag}	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
	1.45	mg/Kg	100	98.6	99		2010-05-18	

Standard (CCV-1)

QC Batch: 70152 Date Analyzed: 2010-05-18 Analyzed By: AR

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			${ m CCVs} \ { m True}$	${ m CCVs} \ { m Found}$	$rac{ ext{CCVs}}{ ext{Percent}}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-05-18

Standard (ICV-1)

QC Batch: 70153

Date Analyzed: 2010-05-18

Analyzed By: AR

			ICVs	ICVs	ICVs	Percent	
			${f True}$	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2010-05-18

Standard (CCV-1)

QC Batch: 70153

Date Analyzed: 2010-05-18

Analyzed By: AR

		•	CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	\mathbf{Units}	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	98.4	98	85 - 115	2010-05-18

Order #: 10051019

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order # 10057015

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July #! 10051019

Analysis F	Reque	est of Chain of Custody	R	20	Ora	1								PAG	E:	3		0	F:	8	
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		1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946					1 1	5 (Ext. to C35)	I Cr Pb Hg Se	J Vr Pd Hg Se									DS		
CLIENT NAME:		SITE MANAGER: IK: Tavore 2	ERS	PF	RESER	VATIVE	1	TX1005	Ba Cd	Ba Cd			0/624	0/625					pH,		
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	MATRIX COMP.	Edy G. AM SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	HOL	HNO3	NONE	TEX 8021B	ФРН 8015 МОБ.	PAH 8270 RCRA Metals Ag	TCLP Metals Ag	TCLP Volatiles	HCI	GC.MS Vol. 8240/8260/624	GC.MS Semi	Pest. 808/608	Chloride Chec	Alpha Beta (/	PLM (Asbestos)	Major Anions/Cations, pH, TDS		
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			Ed .			1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-394	46							5 (Ext. to C35)	Cd Cr Bh Ha So				le or	Spe	cify I	vieur			SDS			
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Urde, # . 10051019 Analysis Request of Chain of Custody Record **ANALYSIS REQUEST** (Circle or Specify Method No.) TETRATECH (Ext. to C35) S S 1910 N. Big Spring St. Pb Hg Pd Hg Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946 ت ≥ خ ا ت TCLP Semi Volatiles

RG
GC.MS Vol. 8240/8260/624
GC.MS Semi. Vol. 8270/625
PCB's 8080/608
Pest. 808/608
Chloridg
Gamma Spec. 8 8 SITE MANAGER: CLIENT NAME: **PRESERVATIVE** NUMBER OF CONTAINERS Ba Ba Stephens & Johnson Operating Ike Taverez METHOD PRÓJECT NO.: PROJECT NAME: RCRA Metals Ag / TCLP Metals Ag / FILTERED (Y/N) HCL Stockens & Johnson / East Millman TB 114-6400476 LAB I.D. MATRIX COMP. DATE TIME GRAB SAMPLE IDENTIFICATION HN03 NONE NUMBER 핑 2010 231088 15-16 BH-4 20:21 25-24 30 31 09 092 40-41 134-4 093 50 - 51 60.61 094 13H-4 095 0-1 BH-5 BH-5 2-8 SAMPLED BY: (Print & Initial) RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) 17:10 RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature) SAMPLE SHIPPED BY: (Circle)

HAND DELIVERED RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature) TETRA TECH CONTACT PERSON: Results by: RECEIVING LABORATORY: RECEIVED BY: (Signature) The Tovarez ADDRESS: _ RUSH Charges CITY: Milleng STATE: TX CONTACT: PHONE: SAMPLE CONDITION WHEN RECEIVED: If Binsen exceeds 10 mg/kg our desper sumples If total TPH exceed 5,000 mg/ks our deeper samples It BIEX exceeds 50 mg/kg run delper sumples

Ocale #: 10051019

Analysis Request of Chain of Custody	v Record	PAGE: 6 OF: 8
	y 1100010	ANALYSIS REQUEST (Circle or Specify Method No.)
TETRATECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946		05 (Ext. to C35) 2d Cr Pb Hg Se 2d Vr Pd Hg Se 5
CLIENT NAME: SITE MANAGER:	PRESERVATIVE	X100 X100 X110 X110 X110 X110 X110 X110
Stephens & Johnson Quenting The Towers	METHOD	As As Bs27(0)
PROJECT NO.: PROJECT NAME: 114-6400000 Stephens & Linson / East Mill mun TB	LNO: Ê	MOD: 1 MOD: 2 S Ag As S Ag Ag As S Ag
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231100 BH-5 20121'		
101 134-5 30-31		
102 134-5 40'.41'		
103 BH-5 50'-51'		
104 34-5 60.61		
105 BH-6 20121		
106 BH 6 30'51'		
107 BH-7 201.21'		
RECEIVED BY: (Signature) Date: 3/7/10 RECEIVED BY: (Signature) Time: 1/64	Date: 7/-// Time: 17	SAMPLED BY: (Print & Initial) Date: 5/6/12
RELINQUISHED BY: (Signature) Date: RECEIVED 6Y: (Signature) Time:	Date: Time:	SAMPLE SHIPPED BY: (Circle) AIRBILL #: BUS
RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature)	Date:	HAND DELIVERED UPS OTHER:
RECEIVING LABORATORY: 7 ACT RECEIVED BY: (Signature) ADDRESS: 1/1	Time:	TETRATECH CONTACT PERSON: Results by: RUSH Charges Authorized.
CITY: M. Hand STATE: TX ZIP: DATE: DATE:	TIME:	Yes No
SAMPLE CONDITION WHEN RECEIVED: REMARKS: If total TPH exceed 5,000 mg/kg run der	per samples It Benen IL BIEX	on exceeds items/kg run desper sumples it

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	Please	fill out all	copi	es -	Laboratory retains Yellow	copy - Return Orginal copy	to Tetra To	ech -	Proje	ect M	anage	r ref	tains	Pinl	CO	οу -	Acc	cour	sting	rece	ives	Gol	d co	ру.		

Urder # 10057019 PAGE: OF: Analysis Request of Chain of Custody Record ANALYSIS REQUEST (Circle or Specify Method No.) TETRATECH (Ext. to C35) g g 1910 N. Big Spring St. 오 모 Midland, Texas 79705 8 B (432) 682-4559 • Fax (432) 682-3946 ठं इ GC.MS Semi. Vol. 8270/625
PCB's 8080/608
Pest. 808/608
Chloride
Gamma Spec.
Alpha Beta (Air)
PLM (Asbestos) 8015 MOD. TX1005 TCLP Volatiles
TCLP Semi Volatiles
RCI
GC.MS Vol. 8240/8260/624 CLIENT NAME: SITE MANAGER: **PRESERVATIVE** NUMBER OF CONTAINERS Ike Taxorez **METHOD** Stockers & Johnson Orgation PROJECT NAME: PROJECT NO .: 114-6400476 Otephens & Johnson / East Millman TB Eddy G. NM LAB I.D. MATRIX COMP. TIME DATE SAMPLE IDENTIFICATION NONE GRAB HNO3 NUMBER SE 20,0 5/4 81118 20-21 134-10 301-31 BH-10 all additional samples arther instructions RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) Date: SAMPLED BY: (Print & Initial) RECEIVED BY: (Signature) RELINQUISHED BY: (Signature) SAMPLE SHIPPED BY: (Circle)

HAND DELIVERED OTHER: RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) TETRA TECH CONTACT PERSON: Results by: RECEIVING LABORATORY: RECEIVED BY: (Signature) The Towarez RUSH Charges If Bensen exceeds 10 mg/kg run desper sumples SAMPLE CONDITION WHEN RECEIVED: II total TPH exceed 5,000 mg/ks run desper samples IL BIEK exceeds 50mg/kg run derper sumples Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

TCEQ Use Only



TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175. SECTION I: General Information 1. Reason for Submission (If other is checked please describe in space provided) New Permit, Registration or Authorization (Core Data Form should be submitted with the program application) Renewal (Core Data Form should be submitted with the renewal form) Other 2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.) ☐Yes ΠNo 4. Regulated Entity Reference Number (if issued) 3. Customer Reference Number (if issued) Follow this link to search for CN or RN numbers in CN RN Central Registry** SECTION II: Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy) 6. Customer Role (Proposed or Actual) - as it relates to the Regulated Entity listed on this form. Please check only one of the following: Owner & Operator ☐ Owner ☐ Operator Occupational Licensee Responsible Party ☐ Voluntary Cleanup Applicant Other: 7. General Customer Information Change in Regulated Entity Ownership New Customer Update to Customer Information Change in Legal Name (Verifiable with the Texas Secretary of State) ☐ No Change** **If "No Change" and Section I is complete, skip to Section III - Regulated Entity Information. 8. Type of Customer: ☐ Individual Sole Proprietorship- D.B.A Corporation County Government Federal Government State Government ☐ City Government Other: Other Government General Partnership Limited Partnership If new Customer, enter previous Customer 9. Customer Legal Name (If an individual, print last name first: ex: Doe, John) End Date: below 10. Mailing Address: ZIP ZIP + 4City State 12. E-Mail Address (if applicable) 11. Country Mailing Information (if outside USA) 15. Fax Number (if applicable) 13. Telephone Number 14. Extension or Code 17. TX State Franchise Tax ID (11 digits) 18. DUNS Number (if applicable) 19. TX SOS Filing Number (if applicable) 16. Federal Tax ID (9 digits) 20. Number of Employees 21. Independently Owned and Operated? □ 0-20 □ 21-100 □ 101-250 □ 251-500 □ 501 and higher Yes □No SECTION III: Regulated Entity Information 22. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application) ☐ New Regulated Entity Update to Regulated Entity Name Update to Regulated Entity Information No Change** (See below) **If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information. 23. Regulated Entity Name (name of the site where the regulated action is taking place)

24. Street Address of the Regulated	•											
Entity: (No P.O. Boxes)	City	T		State		7	iΡ			ZIP + 4		
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26. E-Mail Address	s:	,										
27. Telephone Nur	mber		28	. Extensio	n or Code		29. Fa	x Number (if	applicable)		
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30. Primary SIC Co	ode (4 digit	s) 31. Seconda	ry SIC Cod	e (4 digits)	32. Prima (5 or 6 digits		ICS Co		Secon or 6 digits)		CS Code	
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35. Description to Physical Location												
36. Nearest City			Co	ounty			Sta	ite		Neares	st ZIP Code	•
				·								
37. Latitude (N)	n Decima	l:			38. Loi	ngitud	e (W)	In Decimal:				
Degrees	Minute	\$	Seconds		Degrees			Minutes		S	econds	
			<u> </u>									
39. TCEQ Programs updates may not be made		gram is not listed, ched	k other and wr	ite it in. See t	he Core Data I		tructions	for additional guid	lance.			
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☐ Voluntary Clear	nup	☐ Waste Water		Wastev	water Agricult	ture	☐ Wa	ter Rights ·		Oth	ner:	
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SECTION IV	: Pren	arer Inform	ation									
40. Name:						41. Ti	tie:					
42. Telephone Nun	nber	43. Ext./Code	44. F	ax Numbe	er	45. l	E-Mail	Address				_
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SECTION V:	Auth	orized Signa	ture									
46. By my signatu and that I have sign updates to the ID n	re below nature au numbers i	I certify, to the thority to submit dentified in field	best of my this form of 39.	on behalf	of the entity	y spec	ified ir	Section II,				
(See the Core Date	i Form ii	istructions for m	ore inforn	nation on			this fo	orm.)				
Company:					Job '	Title:						
Name (In Print):								Phone	e: ()	•	
Signature:								Date:				

TCEQ-10400 (09/07) Page 2 of 2

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: May 25, 2010

Work Order: 10051019

Project Location: Eddy County, NM

Project Name:

Stephens & Johnson/East Millman TB

Project Number: 114-6400476

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
231101	BH-5 30-31'	soil	2010-05-06	00:00	2010-05-07
231102	BH-5 40-41'	soil	2010-05-06	00:00	2010-05-07

Sample: 231101 - BH-5 30-31'

Param	Flag	Result	Units	RL
Chloride		1130	mg/Kg	4.00

Sample: 231102 - BH-5 40-41'

Param	Flag	Result	Units	RL
Chloride		460	mg/Kg	4.00



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703

800 • 378 • 1296 888 • 588 • 3443 806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

817 • 201 • 5260

FAX 432 • 689 • 6313

E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019

HUB:

1752439743100-86536

DBE: VN 20657

NCTRCA WFWB38444Y0909

NELAP Certifications

T104704219-08-TX Lubbock:

LELAP-02003

Kansas E-10317

T104704221-08-TX El Paso:

LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: May 25, 2010

Work Order: 10051019

Project Location: Eddy County, NM

Project Name:

Stephens & Johnson/East Millman TB

Project Number:

114-6400476

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
231101	BH-5 30-31'	soil	2010-05-06	00:00	2010-05-07
231102	BH-5 40-41'	soil	2010-05-06	00:00	2010-05-07

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Stephens & Johnson/East Millman TB were received by TraceAnalysis, Inc. on 2010-05-07 and assigned to work order 10051019. Samples for work order 10051019 were received intact at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	60199	2010-05-24 at 09:13	70333	2010-05-25 at 09:55

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10051019 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: May 25, 2010

114-6400476

Work Order: 10051019

Stephens & Johnson/East Millman TB

Page Number: 4 of 5 Eddy County, NM

Analytical Report

Sample: 231101 - BH-5 30-31'

Laboratory: Midland

Analysis: Chloride (Titration)

QC Batch: 70333 Prep Batch: 60199

Analytical Method: SM 4500-Cl B Date Analyzed:

2010-05-25 2010-05-25 Prep Method: N/A Analyzed By:

AR. Prepared By: AR

RL

Parameter Flag Result Units Dilution RLChloride 11304.00mg/Kg $\overline{50}$

Sample Preparation:

Sample: 231102 - BH-5 40-41'

Laboratory:

Midland

Analysis: Chloride (Titration) QC Batch:

70333 Prep Batch: 60199

Analytical Method: SM 4500-Cl B Date Analyzed:

2010-05-25 2010-05-25 Prep Method: N/A

Analyzed By: ARPrepared By: AR

RL

Flag Parameter Result Units Dilution RLChloride 460 mg/Kg 50 4.00

Sample Preparation:

Method Blank (1)

QC Batch: 70333

QC Batch: 70333 Prep Batch: 60199

Date Analyzed: 2010-05-25 Analyzed By: AR

QC Preparation: 2010-05-24 Prepared By:

MDL

Parameter Flag Result Units RLChloride < 2.18 mg/Kg 4

Laboratory Control Spike (LCS-1)

QC Batch: 70333 Prep Batch: 60199 Date Analyzed: 2010-05-25 QC Preparation: 2010-05-24

Analyzed By: ARPrepared By: AR

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Limit Rec. Chloride 98.4mg/Kg 100 < 2.18 98 85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: May 25, 2010

114-6400476

Work Order: 10051019 Stephens & Johnson/East Millman TB Page Number: 5 of 5 Eddy County, NM

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	100	mg/Kg	1	100	<2.18	100	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1)

Spiked Sample: 231598

QC Batch: 70333

Date Analyzed:

2010-05-25

Analyzed By: AR

Prep Batch: 60199

QC Preparation: 2010-05-24

Prepared By: AR

	MS			Spike	Matrix		${ m Rec.}$
Param	Result	\mathbf{U} nits	Dil.	Amount	Result	Rec.	${f Limit}$
Chloride	10700	mg/Kg	100	10000	470	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			\mathbf{Spike}	Matrix		${ m Rec.}$		RPD
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	10900	mg/Kg	100	10000	470	104	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 70333

Date Analyzed: 2010-05-25

Analyzed By: AR

			ICVs True	${ m ICVs} \ { m Found}$	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2010-05-25

Standard (CCV-1)

QC Batch: 70333

Date Analyzed: 2010-05-25

Analyzed By: AR

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2010-05-25

Order #: 10051019

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						1910 N. Big Spring St. Midland, Texas 79705								5 (Ext to C35)	1	Cr Pb Hg	1 Vr Pd Hg Se									DS.			
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জ			\prod			13G1 410'																	Ц						
05,2			\parallel			BG 50'																							
693			\prod			BG 60'					1												8						
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Order # 1009019

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Analysis Request of Chain of Custody Record PAGE: ANALYSIS REQUEST (Circle or Specify Method No.) TETRATECH (Ext. to C35) 8 8 1910 N. Big Spring St. 운 문 Midland, Texas 79705 8 B (432) 682-4559 • Fax (432) 682-3946 Ö ≯ ह ह 8015 MOD> TX1005 GC.MS Semi. Vol. 8270/625 CLIENT NAME: SITE MANAGER: GC.MS Vol. 8240/8260/624 **PRESERVATIVE** NUMBER OF CONTAINERS Stephens & Johnson Orrections Taverez METHOD TCLP Semi Volatiles PROJECT NO .: PROJECT NAME: RCRA Metals Ag / TCLP Metals Ag / PCB's 8080/608
Pest. 808/608
Chloride
Gamma Spec. FILTERED (Y/N) HCL Alpha Beta (Air) PLM (Asbestos) 114-6400-176 Strokens & Johnson East Millman TB LAB I.D. MATRIX COMP. DATE TIME GRAB SAMPLE IDENTIFICATION HN03 NONE **NUMBER** SE 2010 5/5 23/008 BH-Z 3-4 7-81 Ook 134-2 10-11 Sto 15-16 13H-Z 071 072 20-21 13H-Z 26-26 073 13H-Z 30-31 134-2 40-41 BH-Z 5/ 0-1 13H-3 077 RECEIVED BY: (Signature) RELINQUISHED BY: (Signature SAMPLED BY: (Print & Initial 17,00 Time: RELINQUISHED BY: (Signature) RECEMED BY: (Signature) SAMPLE SHIPPED BY: (Circle) AIRBILL #:

Time OTHER: HAND DELIVERED RECEIVED BY: (Signature) RELINQUISHED BY: (Signature) TETRA TECH CONTACT PERSON: Results by: RECEIVING LABORATORY: RECEIVED BY: (Signature) Ike Tavarez RUSH Charges Authorized: CITY: Milliany PHONE: If Benzen exceeds 10 mg/kg run desper sumples SAMPLE CONDITION WHEN RECEIVED: If total TPH exceed 5,000 mg/ks own despor samples It BIEK exceeds 50 mg/leg run derper sumples Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

CONTACT:

Urcle, # 10051019

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						Midland, Texa	Spring St.								5 (Ext. to C35)	Cd Cr Pb Hg Se	d Vr Pd Hg Se									TDS		
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LAB I.D. NUMBER	DATE	- I	SITE MANAGER: The Taverez PROJECT NAME: Stephens! Johnson / East Millman TIB Foldy a Nom SAMPLE IDENTIFICATION SON HONOR SAMPL													RCRA Metals Ag /	TCLP Metals	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625 PCB's 8080/608	Pest. 808/608	Chloride	Alpha Beta (/	PLM (Asbestos)	Major Anions/Cations, pH, TDS		
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Urole, # 10057019 **Analysis Request of Chain of Custody Record** ANALYSIS REQUEST (Circle or Specify Method No.) TETRATECH (Ext. to C35) 8 8 1910 N. Big Spring St. 운 모 Midland, Texas 79705 윤 (432) 682-4559 • Fax (432) 682-3946 5 |১ pH, TDS ह ह GC.MS Vol. 8240/8260/624 GC.MS Semi. Vol. 8270/625 **CLIENT NAME:** SITE MANAGER: **PRESERVATIVE** NUMBER OF CONTAINERS B B Stephens & Johnson Operating Ike Taverez METHOD TCLP Semi Volatiles PROJECT NO .: PROJECT NAME: HCRA Metals Ag Chloride Gamma Spec. Alpha Beta (Air) PLM (Asbestos) FILTERED (Y/N) HCL PCB's 8080/608 Pest. 808/608 114-6400476 Stephens & Johnson East Millman TR TCLP Volatiles LAB I.D. MATRIX COMP. TIME DATE GRAB SAMPLE IDENTIFICATION HNO3 NONE NUMBER 핑 2010 V31088 BH-4 15-16 089 20:21 25-26 134-4 091 30 31 092 40-41 50 - 51 094 60-61 095 134-5 0-1 3-4 7-8 RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) SAMPLED BY: (Print & Initial) 17:00 Time: RECEIVED BY: (Signature) RELINQUISHED BY: (Signature) SAMPLE SHIPPED BY: (Circle) AIRBILL #: HAND DELIVERED OTHER: RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) TETRA TECH CONTACT PERSON: Results by: RECEIVING LABORATORY: RECEIVED BY: (Signature) The Toward

It BIEK exceeds 50 mg/kg Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

If total TPH exceed 5,000 mg/ks run desper samples

If Bensen exceeds 10 mg/kg

ADDRESS: CITY: Millang

SAMPLE CONDITION WHEN RECEIVED:

STATE: TX

PHONE:

RUSH Charges Authonzed:

Ocale #: 10057019

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CLIENT NAM		<u> </u>				Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	88		P		ERVA	ATIVE		TX1005 (Ext. to C35)	d Cr Pb Hg	Ba Cd Vr Pd Hg Se			0/624	0/625					s, pH, TDS	::		
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Cruen: 10057017

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CLIENT NAME:	SITE MANAGER		SE SE		SERVAT		TX1005	Ba C	8		0/624	0/625				, pH, TDS		
	JECT NAME: Ohrns & Lanson / East		CONTAIN (/N)				QPH 8015 MODS	s Ag As	TCLP Metals Ag As Ba	TCLP Serri Volatiles RCI	8240/826	i. Vol. 827 608	82		Aur) tos)	s/Cations		
LAB I.D. DATE TIME XXILLY WOO											GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625 PCB's 8080/608	Pest. 808/608 Chloride	Gamma Spe	Alpha Beta (Aur) PLM (Asbestos)	Major Anions/Cations,		
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115	13H-8 80'-81	1																
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RELINQUISHED BY: (Signature)	Date:	RECEIVED BY: (Signature)		Date.				(HAI	ID DEL	VERED	UPS			0	THER:			
RECEIVING LABORATORY: Trily ADDRESS:	Time: F	RECEIVED BY: (Signature)		Time	<u> </u>			l		CONTAC 						isults by		
CITY: MINIGHT STATE: TX	PHONE: C	DATE:	_ TIME:] Ke	Tova	ere E				Au	JSH Cha Ithorize Yes		No
SAMPLE CONDITION WHEN RECEIVED:	REMARKS: If total TIPH CACO	end 5,000 mg/kg own deeper	r sam	plis	If E	Binter 31EK	LXCY!	ids ds	10.0 50	n/kg my/k	74r	i who	eper derpa	مانتای منتخد س	داساء مساح	5	j/	LG.

Urder #: 10051019

Analysis Request of Chain of Custody Record									PAGE: 8 OF: 8																			
Analysis request of origin of oustody record											ANALYSIS REQUEST (Circle or Specify Method No.)																	
1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946														5 (Ext. to C35)	Cr Pb Hg	d Vr Pd Hg Se									94	601		
CLIENT NAME: SITE MANAGER:							8	2	F	PRESERVATIVE METHOD			7	TX1005	3a Cd	3a Cd			/624	3/625						H.		
Stratung Library Operating The Toweres					PY=2		A S	-	M	ETH(4		As E	As		se	3260	8270						se o			
119-6400476 Stock					NAME:	MIII . TO								D N	PA PA	₽ 8	s	olatil	240/	Vo.	8	_		3	180	Sal		
LAB I.D. NUMBER	DATE	TIME	MATRIX	GRAB	st Johnson / East Eddy G SAMPL	E IDENTIFICATION		NUMBER OF CONTAINERS	HCL	HNO3	ICE	NONE	QTEX 8021B	(TPH * 8015 MOD.) TX10	PCRA Metals	TCLP Metals Ag As Ba	TCLP Volatiles	TCLP Semi Volatiles	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/6	Pest. 808/608	Gamma Spec	Alpha Beta (Air)	PLM (Asbesto	Major Anions/Cattons, ph., 1U3		
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RELINQUISHED BY: (Signature) Date: 5/1/C RECEIVED BY: (Signature) Time: 1204						Date: 5/+//					O SAMPLED BY: (Print & Initial) Date: 5/4/12																	
RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature)							Date:					SAMPLE SHIPPED BY: (Circle) AIRBILL #:																
Time RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature) Time:							· · · · · · · · · · · · · · · · · · ·	Time: Date: Time:																ОТНІ	THER:			
RECEIVING LABORATORY: Teact RECEIVED BY: (Signature)									Time:													RUS						
CITY: MINIGHU STATE: TY ZIP: DATE:								TIME:						TK: lavare 7 RUSH Charges Authorized: Yes No														
SAMPLE COND	*	inte		+	194 1910		in desper				IL	Bent B16	X Z	xeerq	<i>(</i> 5	~5 e		5/1	۲.	r'a ·	n ed	P70	r :	541,00	وأحر	' >	4	(A)
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