

**GW - 051**

**712 Waste**

**YEAR(S):**

**2008 - Present**

**Chavez, Carl J, EMNRD**

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**From:** Chavez, Carl J, EMNRD  
**Sent:** Friday, October 31, 2008 11:03 AM  
**To:** 'Tami C Ross'  
**Subject:** RE: Val Verde Gas Plant (GW-51) Profiles for Disposal at SJ Regional

Tami:

Based upon the laboratory analytical results provided, OCD hereby approves of your request pursuant to Rule 712 (19.15.9.712 NMAC) for disposal of the proposed non- domestic waste at a solid waste facility. The following wastes are approved\*:

- \*Glycol Filters (based upon review of BTEX results)
- \*Waste Oil Filters (based upon review of BTEX results)

Waste Management is responsible for the review of any additional testing that they request beyond the testing parameters specified under the provisions of Subsection D of Section 712 of 19.15.9 NMAC. Please confirm with the San Juan Regional County Landfill (SJRLC) of any additional testing they might require and their willingness to accept such waste prior to delivery.

OCD recommends that petroleum contaminated soils be taken to an OCD permitted landfarm for remediation. Pursuant to Subparagraph (d) of Paragraph (3) of Subsection D of 19.15.9.712 NMAC, petroleum contaminated soil may be disposed of on a case-by-case basis "in the event of an emergency declared by the director." OCD does not consider this an emergency. Please contact the landfarm operator to determine the additional testing is required for acceptance.

Please be advised that approval of this request does not relieve the permittee of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the permittee of its responsibility to comply with any other applicable governmental authority's rules and regulations.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM  
New Mexico Energy, Minerals & Natural Resources Dept.  
Oil Conservation Division, Environmental Bureau  
1220 South St. Francis Dr., Santa Fe, New Mexico 87505  
Office: (505) 476-3491  
Fax: (505) 476-3462  
E-mail: [CarlJ.Chavez@state.nm.us](mailto:CarlJ.Chavez@state.nm.us)  
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>  
(Pollution Prevention Guidance is under "Publications")

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**From:** Tami C Ross [<mailto:tami.ross@soudermiller.com>]  
**Sent:** Friday, October 31, 2008 10:48 AM  
**To:** Chavez, Carl J, EMNRD  
**Subject:** RE: Val Verde Gas Plant

Carl,

I do apologize for all the back and forth. I noted the PQL of 0.83 mg/L for benzene. Per standard for TCLP reporting, it should always be reported at or below regulatory limits. Regulatory limits for benzene TCLP is 0.5 mg/L. I called the lab and the lab manager Andy Freeman talked to me. He said that was indeed a mistake on their part and that the dilution limits used causes the PQLs to elevate in the computer system. He reviewed the report again and made the necessary adjustments per regulations.

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As mentioned before, we analyzed per 8260 TCLP because of the landfill and this material is solid waste and not soil. All the 8260 TCLP results were non-detect which indicates that the BTEX levels are below regulatory standards in all cases.

Another issue that has me confused is that I looked up the historical records on these filters from last year when NMOCD approved the material to be disposed of at the San Juan Region Landfill, and the exact same analyticals were run. They were not required to run standard 8021/8260 BTEX? The TCLP 8260 was accepted. I am just confused on the difficulties this has caused this time. The BTEX concentrations were all non-detect then also.

He said if you have any questions to please call him at 505-345-3975.

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**From:** Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]  
**Sent:** Friday, October 31, 2008 10:28 AM  
**To:** Tami C Ross  
**Subject:** RE: Val Verde Gas Plant

Ms. Ross:

The protocol after failing a test is to resample the waste, since air volatilization may further deplete any unacceptable levels of BTEX before disposal. Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM  
New Mexico Energy, Minerals & Natural Resources Dept.  
Oil Conservation Division, Environmental Bureau  
1220 South St. Francis Dr., Santa Fe, New Mexico 87505  
Office: (505) 476-3491  
Fax: (505) 476-3462  
E-mail: [CarlJ.Chavez@state.nm.us](mailto:CarlJ.Chavez@state.nm.us)  
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>  
(Pollution Prevention Guidance is under "Publications")

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**From:** Tami C Ross [mailto:tami.ross@soudermiller.com]  
**Sent:** Friday, October 31, 2008 10:23 AM  
**To:** Chavez, Carl J, EMNRD  
**Subject:** RE: Val Verde Gas Plant

Carl,

What is the protocol for the folks down in the southeast part of the state? If these filters were in the southeast and they were going to dispose of them at an NMOCD landfill, (Gandy, Marley for example) what is the procedure?

Just fill out the C-138 because they are exempt solid waste?

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**From:** Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]  
**Sent:** Friday, October 31, 2008 9:20 AM  
**To:** Tami C Ross  
**Subject:** RE: Val Verde Gas Plant

Tami:

Good morning. I think you better grab another sample.

I notice that the data results are in water media units; however, the OCD limits are in mg/kg units. While

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attempting to evaluate the ND and/or PQL for Benzene of 0.83 mg/L and multiplying the unit by a factor of 20 (standard dilution factor), the result is about 16.6 mg/kg equivalent unit, which exceeds the OCD Benzene limit of 10 mg/kg. Consequently, the Benzene parameter exceeded the OCD Rule 712 limit.

If you wish to resample and use mg/L units in the future, the ND or PQL for Benzene will need to be less than or equal to 0.5 mg/L. Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM  
New Mexico Energy, Minerals & Natural Resources Dept.  
Oil Conservation Division, Environmental Bureau  
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E-mail: [CarlJ.Chavez@state.nm.us](mailto:CarlJ.Chavez@state.nm.us)  
Website: <http://www.emnrd.state.nm.us/oed/index.htm>  
(Pollution Prevention Guidance is under "Publications")

**From:** Tami C Ross [<mailto:tami.ross@soudermiller.com>]  
**Sent:** Friday, October 31, 2008 8:45 AM  
**To:** Chavez, Carl J, EMNRD  
**Subject:** RE: Val Verde Gas Plant

Carl,

Please find attached the revised laboratory analysis for the Val Verde Gas Plant. The lab reported BTEX, which all concentrations are Non Detect, which is well below NMOCDD disposal standards. We look forward to receiving NMOCDD's approval to dispose of the CO2 filters at the San Juan Region Landfill. The following was taken from Waste Management's web page regarding the San Juan Regional Landfill's permit:

"The SJLF was permitted as a solid waste facility with the New Mexico Environment Department (NMED) in 1988 via Registration Number 241102. The facility design and operations have been conducted in accordance with the applicable NMED Solid Waste Management Regulations since that time. All disposal units since the installation of Cell 3 (1992) meet the composite liner and leachate collection standards of the current NMED regulations (20 NMAC 9.1)."

Thank you,

Tami

**From:** Chavez, Carl J, EMNRD [<mailto:CarlJ.Chavez@state.nm.us>]  
**Sent:** Thursday, October 30, 2008 11:24 AM  
**To:** [tami.ross@soudermiller.com](mailto:tami.ross@soudermiller.com)  
**Subject:** FW: Val Verde Gas Plant

Tami:

Hi. It was decided to place this matter back into my preview. I need some analytical data from you before the OCD can authorize disposal at the San Juan County Regional Landfill. Also, clarify that the landfill is *a solid waste facility permitted or authorized as a solid waste facility by the New Mexico environment department pursuant to the Solid Waste Act, NMSA 1978, Sections 74-9-1 et seq. and rules and regulations of the environmental improvement board, to accept industrial solid waste or other special waste.*

Per Rule 712, the OCD requires a Benzene and/or BTEX analysis for amine and glycol filters per SW-846 Methods (Methods 8021B or 8260 will work). The Rule 712 limits are:

Subsection Rule 712 E(3) states: Limits. To be eligible for disposal pursuant to this section, substances found during testing shall

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not exceed the following limits:

- (a) Benzene: Less than 10 mg/kg.
- (b) BTEX: Less than 500 mg/kg (sum of all).

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM  
New Mexico Energy, Minerals & Natural Resources Dept.  
Oil Conservation Division, Environmental Bureau  
1220 South St. Francis Dr., Santa Fe, New Mexico 87505  
Office: (505) 476-3491  
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Website: <http://www.emnrd.state.nm.us/ocd/index.htm>  
(Pollution Prevention Guidance is under "Publications")

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**From:** Jones, Brad A., EMNRD  
**Sent:** Thursday, October 30, 2008 11:14 AM  
**To:** Chavez, Carl J, EMNRD  
**Subject:** FW: Val Verde Gas Plant

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**From:** Tami C Ross [<mailto:tami.ross@soudermiller.com>]  
**Sent:** Thursday, October 30, 2008 10:57 AM  
**To:** Jones, Brad A., EMNRD  
**Subject:** Val Verde Gas Plant

Brad,

I spoke to the analytical laboratory and BTEX was actually run with the 8260 TCLP. However, the TEX part is not normally reported for that standard. They are going to draft a new report that includes the TEX constituents. These will be included as part of the TCLP.

I believe this will satisfy NMOCD requirements along with Waste Management's requirements.

Thank you,

Tami C. Ross  
Staff Scientist  
Cell: (505) 320-8400  
Office: (505) 325-5667

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## COVER LETTER

Thursday, October 30, 2008

Tami Ross  
Souder, Miller and Associates  
612 E Murray Dr.  
Farmington, NM 87401

TEL: (505) 325-5667

FAX (505) 327-1496

RE: Val Verde Gas Plant

Order No.: 0810116

Dear Tami Ross:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 10/6/2008 for the analyses presented in the following report.

This report is an addendum to the report dated October 30, 2008 .

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager



**Hall Environmental Analysis Laboratory, Inc.**

Date: 31-Oct-08

**CLIENT:** Souder, Miller and Associates  
**Project:** Val Verde Gas Plant  
**Lab Order:** 0810116

**CASE NARRATIVE**

Toluene, Ethylbenzene and Total Xylenes were analyzed from the TCLP extract.

"S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interferences.



# Hall Environmental Analysis Laboratory, Inc.

Date: 31-Oct-08

**CLIENT:** Souder, Miller and Associates  
**Lab Order:** 0810116  
**Project:** Val Verde Gas Plant  
**Lab ID:** 0810116-01

**Client Sample ID:** Bin 2007 Glycol/Bin Used Filters-G  
**Collection Date:** 10/3/2008 12:10:00 PM  
**Date Received:** 10/6/2008  
**Matrix:** SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	120000	2000		mg/Kg	20	10/13/2008
Motor Oil Range Organics (MRO)	110000	10000		mg/Kg	20	10/13/2008
Surr: DNOP	0	61.7-135	S	%REC	20	10/13/2008
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: DAM
Gasoline Range Organics (GRO)	ND	250		mg/Kg	5	10/16/2008 3:04:04 PM
Surr: BFB	85.9	58.8-123		%REC	5	10/16/2008 3:04:04 PM
<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: NSB
Toluene	ND	20		µg/L	20	10/10/2008 3:03:17 PM
Ethylbenzene	ND	20		µg/L	20	10/10/2008 3:03:17 PM
Xylenes, Total	ND	40		µg/L	20	10/10/2008 3:03:17 PM
Surr: 4-Bromofluorobenzene	111	80.4-119		%REC	20	10/10/2008 3:03:17 PM
<b>VOLATILES BY 8260B/1311</b>						Analyst: NSB
Benzene	ND	0.50		mg/L	1	10/10/2008 3:03:17 PM
2-Butanone	ND	10		mg/L	1	10/10/2008 3:03:17 PM
Carbon Tetrachloride	ND	0.50		mg/L	1	10/10/2008 3:03:17 PM
Chlorobenzene	ND	100		mg/L	1	10/10/2008 3:03:17 PM
Chloroform	ND	6.0		mg/L	1	10/10/2008 3:03:17 PM
1,4-Dichlorobenzene	ND	7.5		mg/L	1	10/10/2008 3:03:17 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	10/10/2008 3:03:17 PM
1,1-Dichloroethene	ND	0.70		mg/L	1	10/10/2008 3:03:17 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	10/10/2008 3:03:17 PM
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	10/10/2008 3:03:17 PM
Trichloroethene (TCE)	ND	0.50		mg/L	1	10/10/2008 3:03:17 PM
Vinyl chloride	ND	0.20		mg/L	1	10/10/2008 3:03:17 PM
Surr: 1,2-Dichloroethane-d4	106	69.9-130		%REC	1	10/10/2008 3:03:17 PM
Surr: 4-Bromofluorobenzene	112	71.2-123		%REC	1	10/10/2008 3:03:17 PM
Surr: Dibromofluoromethane	105	73.9-134		%REC	1	10/10/2008 3:03:17 PM
Surr: Toluene-d8	95.5	81.9-122		%REC	1	10/10/2008 3:03:17 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 31-Oct-08

**CLIENT:** Souder, Miller and Associates  
**Lab Order:** 0810116  
**Project:** Val Verde Gas Plant  
**Lab ID:** 0810116-02

**Client Sample ID:** Train 7 Amine/Bin 0011 Amine Co  
**Collection Date:** 10/3/2008 11:51:00 AM  
**Date Received:** 10/6/2008  
**Matrix:** SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	86000	1000		mg/Kg	10	10/9/2008
Motor Oil Range Organics (MRO)	78000	5000		mg/Kg	10	10/9/2008
Surr: DNOP	0	61.7-135	S	%REC	10	10/9/2008

<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: DAM
Gasoline Range Organics (GRO)	ND	250		mg/Kg	5	10/16/2008 3:34:21 PM
Surr: BFB	85.8	58.8-123		%REC	5	10/16/2008 3:34:21 PM

<b>EPA METHOD 8260: VOLATILES SHORT LIST</b>						Analyst: NSB
Toluene	ND	20		µg/L	20	10/10/2008 3:35:39 PM
Ethylbenzene	ND	20		µg/L	20	10/10/2008 3:35:39 PM
Xylenes, Total	ND	40		µg/L	20	10/10/2008 3:35:39 PM
Surr: 4-Bromofluorobenzene	117	80.4-119		%REC	20	10/10/2008 3:35:39 PM

<b>VOLATILES BY 8260B/1311</b>						Analyst: NSB
Benzene	ND	0.50		mg/L	1	10/10/2008 3:35:39 PM
2-Butanone	ND	10		mg/L	1	10/10/2008 3:35:39 PM
Carbon Tetrachloride	ND	0.50		mg/L	1	10/10/2008 3:35:39 PM
Chlorobenzene	ND	100		mg/L	1	10/10/2008 3:35:39 PM
Chloroform	ND	6.0		mg/L	1	10/10/2008 3:35:39 PM
1,4-Dichlorobenzene	ND	7.5		mg/L	1	10/10/2008 3:35:39 PM
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	10/10/2008 3:35:39 PM
1,1-Dichloroethene	ND	0.70		mg/L	1	10/10/2008 3:35:39 PM
Hexachlorobutadiene	ND	0.50		mg/L	1	10/10/2008 3:35:39 PM
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	10/10/2008 3:35:39 PM
Trichloroethene (TCE)	ND	0.50		mg/L	1	10/10/2008 3:35:39 PM
Vinyl chloride	ND	0.20		mg/L	1	10/10/2008 3:35:39 PM
Surr: 1,2-Dichloroethane-d4	102	69.9-130		%REC	1	10/10/2008 3:35:39 PM
Surr: 4-Bromofluorobenzene	118	71.2-123		%REC	1	10/10/2008 3:35:39 PM
Surr: Dibromofluoromethane	105	73.9-134		%REC	1	10/10/2008 3:35:39 PM
Surr: Toluene-d8	97.0	81.9-122		%REC	1	10/10/2008 3:35:39 PM

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit



ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602  
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

## LABORATORY ANALYTICAL REPORT

Client: Hall Environmental  
Project: 0810116  
Lab ID: C08100390-002  
Client Sample ID: in 7 Amine/Bln 0011 Amine Composite

Report Date: 10/15/08  
Collection Date: 10/03/08 11:51  
Date Received: 10/08/08  
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Filterable	No					SW1311	10/10/08 15:58 / dcj
<b>METALS - TCLP</b>							
Arsenic	ND	mg/L		0.5	5	SW6010B	10/14/08 02:41 / cp
Barium	ND	mg/L		10	100	SW6010B	10/14/08 02:41 / cp
Cadmium	ND	mg/L		0.1	1	SW6010B	10/14/08 02:41 / cp
Chromium	4.0	mg/L		0.5	5	SW6010B	10/14/08 02:41 / cp
Lead	ND	mg/L		0.5	5	SW6010B	10/14/08 02:41 / cp
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/15/08 15:47 / ae
Selenium	ND	mg/L		0.1	1	SW6010B	10/14/08 02:41 / cp
Silver	ND	mg/L		0.5	5	SW6010B	10/14/08 02:41 / cp

Report Definitions: RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. • 2393 Salt Creek Highway (82601) • P.O. Box 3258 • Casper, WY 82602  
Toll Free 888.235.0515 • 307.235.0515 • Fax 307.234.1639 • casper@energylab.com • www.energylab.com

## LABORATORY ANALYTICAL REPORT

Client: Hall Environmental  
Project: 0810116  
Lab ID: C08100390-001  
Client Sample ID: 7 Glycol/Bln Used Filters-Glycol-Comp

Report Date: 10/15/08  
Collection Date: 10/03/08 12:10  
Date Received: 10/08/08  
Matrix: Solid

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL PROPERTIES</b>							
Filterable	No					SW1311	10/10/08 15:58 / dcj
<b>METALS - TCLP</b>							
Arsenic	ND	mg/L		0.5	5	SW6010B	10/14/08 02:37 / cp
Barium	ND	mg/L		10	100	SW6010B	10/14/08 02:37 / cp
Cadmium	ND	mg/L		0.1	1	SW8010B	10/14/08 02:37 / cp
Chromium	ND	mg/L		0.5	5	SW8010B	10/14/08 02:37 / cp
Lead	ND	mg/L		0.5	5	SW8010B	10/14/08 02:37 / cp
Mercury	ND	mg/L		0.02	0.2	SW7470A	10/15/08 15:39 / ae
Selenium	ND	mg/L		0.1	1	SW6010B	10/14/08 02:37 / cp
Silver	ND	mg/L		0.5	5	SW6010B	10/14/08 02:37 / cp

Report  
Definitions: RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## QA/QC Summary Report

Client: Hall Environmental  
Project: 0810116

Report Date: 10/16/08  
Work Order: C08100390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B									Batch: 20081
Sample ID: MB-20081	Method Blank						Run: ICP2-C_081013A		10/14/08 01:43
Arsenic	ND	mg/L	0.02						
Barium	0.10	mg/L	0.02						
Cadmium	ND	mg/L	0.001						
Chromium	ND	mg/L	0.003						
Lead	0.1	mg/L	0.02						
Selenium	ND	mg/L	0.03						
Silver	ND	mg/L	0.009						
Sample ID: LCS3-20081	Laboratory Control Sample						Run: ICP2-C_081013A		10/14/08 01:48
Arsenic	0.507	mg/L	0.50	101	85	115			
Barium	0.583	mg/L	10	97	85	115			
Cadmium	0.248	mg/L	0.10	99	85	115			
Chromium	0.507	mg/L	0.50	101	85	115			
Lead	0.652	mg/L	0.50	104	85	115			
Selenium	0.508	mg/L	0.10	101	85	115			
Silver	0.0521	mg/L	0.50	104	85	115			
Sample ID: C08100390-002AMS3	Sample Matrix Spike						Run: ICP2-C_081013A		10/14/08 02:45
Arsenic	0.758	mg/L	0.50	104	75	125			
Barium	0.675	mg/L	10	94	75	125			
Cadmium	0.262	mg/L	0.10	101	75	125			
Chromium	4.44	mg/L	0.50		75	125			A
Lead	0.519	mg/L	0.50	104	75	125			
Selenium	0.697	mg/L	0.10	107	75	125			
Silver	0.0513	mg/L	0.50	103	75	125			
Sample ID: C08100390-002AMSD3	Sample Matrix Spike Duplicate						Run: ICP2-C_081013A		10/14/08 02:49
Arsenic	0.740	mg/L	0.50	101	75	125	2.1	20	
Barium	0.680	mg/L	10	91	75	125	0	20	
Cadmium	0.249	mg/L	0.10	100	75	125	1.1	20	
Chromium	4.28	mg/L	0.50		75	125	3.8	20	A
Lead	0.518	mg/L	0.50	104	75	125	0.2	20	
Selenium	0.606	mg/L	0.10	109	75	125	1.5	20	
Silver	0.0499	mg/L	0.50	100	75	125	0	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



## QA/QC Summary Report

Client: Hall Environmental  
Project: 0810116

Report Date: 10/16/08  
Work Order: C08100390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A									Batch: 20056
Sample ID: MB-20056 Mercury	Method Blank 5E-05	mg/L	5E-05						Run: CVAA-C201_081015B 10/15/08 15:32
Sample ID: LCS-20056 Mercury	Laboratory Control Sample 0.0053	mg/L	0.020	105	80	110			Run: CVAA-C201_081015B 10/15/08 15:34
Sample ID: C08100390-001AMS Mercury	Sample Matrix Spike 0.036	mg/L	0.020	142	85	115			Run: CVAA-C201_081015B 10/15/08 15:42 S
Sample ID: C08100390-001AMSD Mercury	Sample Matrix Spike Duplicate 0.036	mg/L	0.020	142	85	115	0.2	10	Run: CVAA-C201_081015B 10/15/08 15:44 S

### Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

## QA/QC SUMMARY REPORT

Client: Souder, Miller and Associates  
 Project: Val Verde Gas Plant

Work Order: 0810116

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
<b>Method: EPA Method 8015B: Diesel Range Organics</b>									
Sample ID: MB-17299		MBLK			Batch ID: 17299		Analysis Date:		10/7/2008
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-17299		LCS			Batch ID: 17299		Analysis Date:		10/7/2008
Diesel Range Organics (DRO)	53.74	mg/Kg	10	107	64.6	116			
Sample ID: LCSD-17299		LCSD			Batch ID: 17299		Analysis Date:		10/7/2008
Diesel Range Organics (DRO)	49.04	mg/Kg	10	98.1	64.6	116	9.15	17.4	
<b>Method: EPA Method 8015B: Gasoline Range</b>									
Sample ID: MB-17295		MBLK			Batch ID: 17295		Analysis Date:		10/16/2008 6:06:01 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-17295		LCS			Batch ID: 17295		Analysis Date:		10/16/2008 6:36:22 PM
Gasoline Range Organics (GRO)	25.04	mg/Kg	5.0	91.1	69.5	120			
Sample ID: LCSD-17295		LCSD			Batch ID: 17295		Analysis Date:		10/16/2008 7:06:53 PM
Gasoline Range Organics (GRO)	26.42	mg/Kg	5.0	96.6	69.5	120	5.36	11.6	
<b>Method: EPA Method 8260: Volatiles Short List</b>									
Sample ID: 5ml rb		MBLK			Batch ID: R30644		Analysis Date:		10/10/2008 9:09:48 AM
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
Sample ID: 100ng lcs		LCS			Batch ID: R30644		Analysis Date:		10/10/2008 10:09:23 AM
Toluene	22.67	µg/L	1.0	113	64.1	127			
<b>Method: Volatiles by 8260B/1311</b>									
Sample ID: mb-17296		MBLK			Batch ID: 17296		Analysis Date:		10/11/2008 2:03:45 PM
Benzene	ND	mg/L	0.50						
2-Butanone	ND	mg/L	10						
Carbon Tetrachloride	ND	mg/L	0.50						
Chlorobenzene	ND	mg/L	100						
Chloroform	ND	mg/L	6.0						
1,4-Dichlorobenzene	ND	mg/L	7.5						
1,2-Dichloroethane (EDC)	ND	mg/L	0.50						
1,1-Dichloroethene	ND	mg/L	0.70						
Hexachlorobutadiene	ND	mg/L	0.50						
Tetrachloroethene (PCE)	ND	mg/L	0.70						
Trichloroethene (TCE)	ND	mg/L	0.50						
Vinyl chloride	ND	mg/L	0.20						
Sample ID: lcs-17296		LCS			Batch ID: 17296		Analysis Date:		10/11/2008 12:27:01 PM
Benzene	0.5132	mg/L	0.50	128	51.1	171			
Chlorobenzene	ND	mg/L	100	109	38.1	191			
1,1-Dichloroethene	ND	mg/L	0.70	113	49.1	162			
Trichloroethene (TCE)	ND	mg/L	0.50	123	41.2	166			

## Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name SMA-FARM

Date Received:

10/8/2008

Work Order Number 0810116

Received by: AT

Sample ID labels checked by:

Initials

Checklist completed by:

Signature

Date

Matrix:

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - Preservation labels on bottle and cap match?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

Container/Temp Blank temperature?

4°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_



