AP - 072

STAGE 1 PROPOSAL

DATE: 8/28/2007

AP072

WORLD-WIDE ENVIRONMENTAL SPECIALISTS

BBC INTERNATIONAL
INCORPORATED

PHONE (505) 397-6388 • FAX (505) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: bbc@bbcinternational.com

August 22, 2007

VIA FEDERAL EXPRESS
AIRBILL NUMBER: 7924 0212 6496

Mr. Glenn Von Gonten
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

SUBJECT: STAGE 1 ABATEMENT PLAN (AP-072)
STATE M-1 SALT WATER DISPOSAL TANK BATTERY

Dear Mr. Von Gonten:

On behalf of Chesapeake Operating, Inc., BBC International, Inc. respectfully submits the enclosed Stage 1 Abatement Plan (AP-072).

If you have any questions, please do not hesitate to contact myself at (505) 397-6388 or via e-mail at cbrunson@bbcinternational.com or Bradley Blevins with Chesapeake Operating, Inc. at (505) 391-1462, extension 6224 or via e-mail at bblevins@chkenergy.com.

Sincerely,

BBC International, Inc.

Cliff P. Brunson

Cliff P. Brunson, CEI, CRS
President

cc: Chris Williams – NMOCD, Hobbs
Bradley Blevins – Chesapeake, Hobbs
Harlan Brown – Chesapeake, Oklahoma City

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

UNIT LETTER "O", SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST
LEA COUNTY, NEW MEXICO

STAGE 1 ABATEMENT PLAN (AP-072)

AUGUST 2007

CHESAPEAKE OPERATING, INC.

HOBBS, NM

PREPARED BY:

BBC INTERNATIONAL, INC.
WORLD-WIDE ENVIRONMENTAL SPECIALISTS
1324 W. MARLAND BLVD.
HOBBS, NEW MEXICO 88240
(505)397-6388 • FAX (505)397-0397
EMAIL: cbrunson@bbcinternational.com

TABLE OF CONTENTS

FIGURES

LIST OF APPENDICES

TABLES

1.0 INTRODUCTION

The subject site is located east of Buckeye, New Mexico in Lea County in Unit Letter O, of Section 18, Township 17 South, and Range 36 East. The site is a former operating tank battery. Chesapeake Operating, Inc. (Chesapeake) purchased the tank battery from Permian Resources in April 2004.

In the spring of 2007, Chesapeake decided to abandon the tank battery. As part of the process of abandonment, site investigation activities were conducted by BBC International, Inc. (BBC) in May 2007. An air rotary drilling rig was utilized to collect samples in order to delineate the lateral and vertical extent of potential hydrocarbon and chloride impact around the tank battery site. Laboratory analyses indicated soil and ground water impact above New Mexico Oil Conservation Division (NMOCD) guidelines and the New Mexico Water Quality Control Commission (WQCC) ground water standards.

On May 30, 2007, the NMOCD was notified via e-mail of the groundwater impact at the site **(See Appendix I)**. The NMOCD notified Chesapeake in a letter dated June 19, 2007 that a Stage I Abatement Plan was required for the State M-1 SWD Tank Battery to investigate groundwater contamination in accordance with NMOCD's regulations found in Rule 19 of the New Mexico Administrative Code, Chapter 15, Part 15.1.19 (19.15.1.19 NMAC) because hydrocarbons released from the tank battery had contaminated ground water at concentrations that exceed the WQCC ground water protection standards specified at 20.6.2.3103 NMAC.

Chesapeake is unaware of any previous investigations related to this site.

Chesapeake has retained BBC International, Inc. (BBC) to investigate and manage the site activities at the State M-1 Salt Water Disposal Tank Battery.

2.0 SITE DESCRIPTION

The subject property is located in southern Lea County in the southeastern corner of New Mexico. The area is in the Pecos River Valley section of the Great Plains physiographic province and is located in the southern margin of the Llano Estacado. The region is generally a treeless, gently sloping plain, with shallow playa lakes, sand dunes and covered with short prairie grass. The climate of the area is classified as semi-arid to arid and is characterized by low annual rainfall, low humidity, and a high average annual temperature. Local precipitation averages approximately 13 inches per year. Evaporation in the region is approximately 100 inches per year (Nicholson and Clebsch).

The site is located in the northwestern quadrant of Section 18, Township 17 South, Range 36 East. The site is located in the eastern portion of the Buckeye area.

Currently, the site is surrounded by oil field operations and ranch land.

3.0 SITE ACTIVITIES

In May 2007, BBC conducted drilling and soil sampling within the site to delineate the lateral and vertical extents of hydrocarbon and chloride impact. Soil samples at each borehole were taken at one (1) foot bgs, three (3) feet bgs, five (5) feet bgs, and at five (5) foot intervals thereafter. Headspace measurements using a photo ionization detector (PID) and chloride field screens were used to determine which sample in the range between five (5) feet bgs and total depth of the soil boring qualified for laboratory analyses (e.g. the sample with highest results of field tests). The sample collected at the extent of each boring was also submitted for laboratory analysis. Consequently, five (5) soil samples from each soil boring were submitted to a laboratory and analyzed for total petroleum hydrocarbons (TPH), including speciation of gasoline range organics (GRO) and diesel range organics (DRO), chloride, benzene, toluene, ethylbenzene, and xylene (BTEX). Please see **Table 1** for summaries of soil analytical data and **Appendix II** for all laboratory analytical reports.

The first soil boring, SB1, was advanced on May 3, 2007 located south of the abandoned well in the center of the northeast caliche pad. BTEX was non-detectable with the exception of the one (1) foot bgs sample which detected a trace amount of total xylenes. Chloride levels ranged from 1,790 ppm at one (1) foot bgs to 5,140 ppm at twenty (20) feet bgs to 408 ppm at thirty-nine (39) feet bgs. GRO and DRO were detected at low concentrations at one (1) foot bgs and were non-detectable in remaining samples. Please refer to **Figure 1** for the location of all samples collected. All drilling logs are located in **Appendix IV**.

On May 22, 2007, five (5) soil borings were drilled. SB2 was drilled at the west end of the tank pad. BTEX was detected at both the one (1) foot and three (3) foot bgs samples. The other samples to fifty (50) feet bgs were non-detect for BTEX. Chloride was detected in ranges from 2,020 ppm at one (1) foot bgs to 2,060 ppm at thirty (30) feet bgs then down to 43.5 ppm at fifty (50) feet bgs. GRO and DRO were detected down to three (3) feet bgs then non-detect to terminus at fifty (50) feet bgs.

SB3 was drilled east of SB2 in the north central area of the site. BTEX was detected in low concentrations down to three (3) feet bgs then non-detect to thirty nine (39) feet bgs. Chloride declined from 2,720 ppm at one (1) foot bgs to 328 ppm at thirty-nine (39) feet bgs. GRO and DRO were non-detectable below the five (5) foot sample.

SB4 was drilled east of SB3 and next to the pump pad on the east end of the caliche pad. At SB4, only Total Xylenes were detected at low levels for BTEX constituents. Chloride levels spiked to 3,310 ppm at twenty (20) feet bgs then

dropped to 144 ppm at thirty nine (39) feet bgs. GRO and DRO were non-detect except for GRO at one (1) foot bgs which was 16.4 ppm.

SB5 was located east of SB4 at the northeast corner of the site. All constituents of concern (COCs) at SB5 with the exception of chloride were non-detectable. Chloride concentrations ranged from 1,210 ppm at one (1) foot bgs to 2,080 ppm at twenty (20) feet bgs to 49.1 ppm at the terminus of thirty-five (35) feet bgs.

SB6 was drilled south of SB5 on the east side of the site. BTEX was non-detectable. Chloride began at 414 ppm at one (1) foot bgs, peaked at fifteen (15) feet bgs with 1,460 ppm, and dropped to 461 ppm at thirty-five (35) feet bgs. The only detection of GRO occurred in the five (5) foot sample at 1,300 ppm. DRO was not detectable throughout the soil boring.

On May 23, 2007, SB7 was drilled at the southwest corner of the site. All COCs with the exception of chloride steadily increased in concentration with depth at this boring. The highest chloride was 210 ppm at the five (5) foot bgs sample depth. All of the rest of the samples were below 50 ppm. Hydrocarbons were detected continuously using PID and olfactory detection until water was encountered. SB7 was then completed as a permanent groundwater monitoring well and renamed MW1. The well was drilled to a total depth of fifty (50) feet bgs. The well was constructed with a minimum of fifteen (15) feet of 2 inch (2") PVC well screen with ten (10) feet of well screen below the water table. Blank PVC riser was extended to the surface. Filter sand was installed to two-three (2-3) feet above the well screen followed by a bentonite plug and cement grout to the surface with a cement pad and locking vault put in place.

An initial ground water sample was collected and analyzed after purging three (3) well volumes of water on May 23, 2007. The analytical results showed non-detect for BTEX, GRO, and DRO. Chloride was detected at 108 ppm. See **Table 2** for a summary of ground water analytical data. Since the well bore had a hydrocarbon odor, the well was allowed to recharge for a week and on May 29, 2007 the well was gauged with an interface depth probe that detected 5.9 feet of free phase hydrocarbon on the water table. The NMOCD was notified of ground water impact on May 30, 2007 via e-mail. **(See Appendix I)**.

SB8 was placed in the center of the entire site and northeast of MW1 (SB7). BTEX was not detectable. Chloride declined from 10,800 ppm at one (1) foot bgs to 263 ppm at thirty-nine (39) feet bgs. GRO was detected at one (1) foot bgs and not detectable throughout the remainder of the soil boring. DRO was also not detectable throughout the soil boring.

4.0 SITE INVESTIGATION

Chesapeake is submitting this Stage 1 Abatement Plan in accordance with the NMOCD's Rule 19 (19.15.1.19 NMAC) to investigate potential ground water

contamination at Chesapeake's State M-1 SWD Tank Battery site located in Section 18, Township 17 South, Range 36 East, Lea County, New Mexico.

Chesapeake proposes the following to investigate and delineate the site utilizing the advancement of soil borings and ground water monitoring wells and associated laboratory analyses.

4.1 Soil

A minimum of three (3) soil borings will be advanced at the site to delineate the vertical and horizontal extent of potential hydrocarbon and chloride contamination present in the vadose zone. The proposed location of these soil borings are depicted on **Figure 3**.

The locations of the proposed soil borings are necessary to delineate the area of soil impact of hydrocarbons and chloride that may exist in the vadose zone at the site.

Site history information, conditions, and field screening analytical techniques for hydrocarbons and chloride will dictate the depth and any additional number of soil borings advanced at the site.

An air-rotary rig equipped with split-spoon sampling tools will be used to advance the soil borings and collect the soil samples. The soil borings advanced at the site will be sampled initially in the near surface (0-3 feet below ground surface (bgs)), then sampled every five feet until terminus.

4.2 QA/QC Sampling Procedures-Soil

The soil samples will be obtained by personnel utilizing appropriate sampling tools and wearing clean disposable gloves. The soil samples will be collected using sampling tools that will be decontaminated using an Alconox detergent solution and rinsed with distilled water between sampling events. The drilling equipment will be decontaminated prior to being brought on the site as well as decontaminated between soil borings.

Each soil sampling interval will be split into two equal portions and placed in separate containers. The first portion of the sample will be placed into a container to field screen the soil using a photo ionization detector (PID) for hydrocarbon detection, then using a titration analysis for chloride. The second portion of the sample will be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the testing laboratory. Each container will be filled to capacity with soil. All containers will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40^0F (4^0C). The cooler will be sealed for delivery to the laboratory for laboratory testing utilizing proper chain of custody documentation throughout the sampling process. The samples will be

delivered for analysis to Trace Laboratories, Inc. in Lubbock, Texas. The laboratory will be responsible for proper QA/QC procedures utilized during the analytical process. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

4.3 Laboratory Analysis-Soil

The soil samples will be analyzed for all constituents contained in the following analytical methods for initial site characterization according to NMOCD requirements:

- Metals – Method SW6020
- Total Mercury – Method 7470
- Total Petroleum Hydrocarbons (TPH) – Method SW 846-8015 Modified DRO/GRO
- Volatile Organic Compounds (VOCs (including BTEX)) – Method SW 846-8260B
- Semi-volatile Organic Compounds (SVOCs) – Method SW 846-8270C
- Chloride – Method E300
- Cyanide – Method E335.3
- Nitrogen, Nitrite – Method E354.1
- pH – Method E150.1

4.4 Ground Water

A minimum of nine (9) ground water monitoring wells will be advanced and installed at the site to delineate the vertical and horizontal extent of potential hydrocarbon and chloride contamination present in the vadose zone and the ground water aquifer. The proposed location of these ground water monitoring wells are depicted on **Figure 3**.

The locations of the proposed ground water monitoring wells are necessary to assist in delineating the impact of the ground water from the operations of the former tank battery.

Three (3) up gradient wells and six (6) down gradient well of the former tank battery will be installed in order to define the site geology and hydrogeology of potential vadose-zone and ground water contamination, subsurface hydraulic conductivity, transmissivity, storativity, and rate and direction of potential contaminant migration. If site conditions warrant the collection of additional data concerning ground water, additional ground water monitoring wells may be installed.

An air-rotary rig equipped with split-spoon sampling tools will be used to advance the ground water monitoring wells and collect the soil samples. The ground water monitoring wells advanced at the site will be sampled initially in the near surface

(0-3 feet below ground surface (bgs)), then sampled every five feet until terminus.

4.5 QA/QC Sampling Procedures-Soil (Ground Water Monitoring Wells)

The soil samples will be obtained by personnel utilizing appropriate sampling tools and wearing clean disposable gloves. The soil samples will be collected using sampling tools that will be decontaminated using an Alconox detergent solution and rinsed with distilled water between sampling events. The drilling equipment will be decontaminated prior to being brought on the site as well as decontaminated between soil borings.

Each soil sampling interval will be split into two equal portions and placed in separate containers. The first portion of the sample will be placed into a container to field screen the soil using chloride titration analysis. The second portion of the sample will be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the testing laboratory. Each container will be filled to capacity with soil. All containers will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40^0F (4^0C). The cooler will be sealed for delivery to the laboratory for laboratory testing utilizing proper chain of custody documentation throughout the sampling process. The samples will be delivered for analysis to Trace Laboratories, Inc. in Lubbock, Texas.

The laboratory will be responsible for proper QA/QC procedures utilized during the analytical process. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

4.6 Laboratory Analysis-Soil (Ground Water Monitoring Wells)

The soil samples will be analyzed for all constituents contained in the following analytical methods for initial site characterization according to NMOCD requirements:

- Metals – Method SW6020
- Total Mercury – Method 7470
- Total Petroleum Hydrocarbons (TPH) – Method SW 846-8015 Modified DRO/GRO
- Volatile Organic Compounds (VOCs (including BTEX)) – Method SW 846-8260B
- Semi-volatile Organic Compounds (SVOCs) – Method SW 846-8270C
- Chloride – Method E300
- Cyanide – Method E335.3
- Nitrogen, Nitrite – Method E354.1
- pH – Method E150.1

4.7 Ground Water Monitor Well Construction and Development

The proposed ground water monitor wells will be completed in the locations as depicted in **Figure 3**. The wells will be constructed of a minimum of fifteen (15) feet of 2 inch (2") PVC well screen with ten (10) feet of well screen below the water table. Blank PVC riser will be extended to the surface. Filter sand will be installed to two-three (2-3) feet above the well screen followed by a bentonite plug and cement grout to the surface with a cement pad and locking vault put in place.

The ground water monitor wells will be developed by surging and bailing or pumping to facilitate ground water flow into the well bore. Following development, the wells will be gauged for depth to ground water and to determine if free hydrocarbons are present. A minimum of twelve (12) hours after installation, the wells will be gauged, purged, and sampled for the required constituents.

4.8 QA/QC Sampling Procedures-Ground Water

The ground water monitor wells will be developed and purged prior to sampling. Monitoring wells with a sufficient recharge will be purged by removing a minimum of three well volumes. Monitoring wells that do not recharge sufficiently will be purged until no additional ground water can be obtained.

After purging the newly installed wells, groundwater samples will be collected with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves. Groundwater sample containers will be filled in the order of decreasing volatilization sensitivity (i.e., BTEX containers filled first and PAH containers second).

Ground water samples collected for BTEX analysis will be placed in 40 ml glass VOA vials equipped with Teflon lined caps that will be provided by the analytical laboratory. The vials will be filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

Ground water samples collected for PAH analysis will be filled to capacity in sterile, one (1) liter glass containers equipped with Teflon lined caps. Ground water samples collected for metals analysis will be filled to capacity in sterile, one (1) liter plastic containers equipped with Teflon lined caps. All of the sampling containers will be provided by the analytical laboratory.

All containers will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40^0F (4^0C). The cooler will be sealed for delivery to the laboratory for laboratory testing utilizing proper chain of custody documentation throughout the sampling process. The samples will be delivered for analysis to Trace Laboratories, Inc. in Lubbock, Texas.

The laboratory will be responsible for proper QA/QC procedures utilized during the analytical process. These procedures are either transmitted with the laboratory reports or are on file at the laboratory.

4.9 Laboratory Analysis-Ground Water Monitoring Wells

The ground water samples will be analyzed for all constituents contained in the following analytical methods for initial site characterization according to NMOCD requirements:

- Metals – Method SW6020
- Total Mercury – Method 7470
- Volatile Organic Compounds (VOCs (including BTEX)) – Method SW 846-8260B
- Semi-volatile Organic Compounds (SVOCs) – Method SW 846-8270C
- Chloride – Method E300
- Cyanide – Method E335.3
- Nitrogen, Nitrite – Method E354.1
- pH – Method E150.1
- Total Dissolved Solids – E160.1

5.0 MONITORING PLAN

All site ground water monitoring wells will be gauged and sampled on a quarterly basis during the life of the abatement process. The constituents analyzed for will be determined in consultation with the NMOCD after the initial characterization of the first sampling event after the installation of the ground water monitoring wells.

6.0 AQUIFER DESCRIPTION

Several aquifers are located in the Buckeye area, the Quaternary alluvium, the Ogallala formation, and the Triassic Dockum Group which is composed of the Chinle formation and the Santa Rosa Sandstone (Nicholson and Clebsch). The community of Buckeye obtains ground water for domestic use from the Ogallala formation which is the major fresh water aquifer in the area. According to the New Mexico Office of the State Engineer (NMOSE), current depth to water in the site vicinity is approximately 40 to 50 feet and ground water flow direction in the Ogallala aquifer is towards the east southeast.

The site is within the limits of the Lea County Basin as declared by the New Mexico Office of the State Engineer (NMOSE). In the Lea County Basin, the sole source of drinking water is the Ogallala Aquifer. In the Southern High Plains area, the Ogallala Aquifer ranges in saturated thickness from 25 feet to 175 feet. Recharge to the aquifer is fed wholly by precipitation and most water infiltration occurs through playas. Typical recharge rates to the unconfined Ogallala in this area are approximately 0.25 to 0.5 inch/year (Nicholson and Clebsch).

7.0 INVENTORY OF WATER WELLS WITHIN ONE MILE

An inventory of water wells located within one mile of the site can be found in **Appendix III**. These well locations were obtained from the website of the New Mexico Office of the State Engineer.

8.0 SURFACE OWNERSHIP

Chesapeake will conduct a one-mile radius search from the site of all known and registered surface owners. A review of the public tax rolls of Lea County, NM will identify the name and addresses of the surface owners within one mile of the site and a list will be generated. **Figure 2** is a diagram depicting the one-mile radius search.

9.0 SCHEDULE OF ACTIVITIES

All Stage 1 Abatement Plan activities will commence within 30 days of the final approval of the Stage 1 Abatement Plan following the public notice period and approval from the NMOCD. A schedule of site activities will be submitted to the NMOCD upon final approval of the Stage 1 Abatement Plan along with follow up quarterly progress reports then a final report upon completion of investigative Stage 1 Abatement activities.

10.0 DELIVERABLES

A Stage 1 Abatement Plan Site Investigation Report will be submitted within 60 days upon completion of investigative activities which will include, but not limited to, a description and history of the site, site map, a description of site investigative activities, summary data tables, laboratory analytical data, ground water gradient map, isoconcentration maps and cross sections that depict any identified contamination that may have been released from the former tank battery, and any data necessary to select and design an effective abatement option under NMOCD Rule 19 Stage 2 Abatement requirements.

A paper and electronic copy of all work plans and/or reports will be submitted to both the Santa Fe, New Mexico and Hobbs, New Mexico offices of the NMOCD.

11.0 ABATEMENT PROCESS

On behalf of Chesapeake, BBC has submitted this Stage 1 Abatement Plan (AP-061) in accordance with NMOCD Rule 19 NMAC 15.1.19.

Upon NMOCD approval of the Stage 1 Abatement Plan, all public notice and participation requirements under Rule 19 (19.15.1.19 NMAC), specifically Rule 19G, will be followed.

12.0 REFERENCES

Nicholson, Jr., Alexander and Clebsch, Jr. Alfred, 1961, *Geology and Ground-Water Conditions in Southern Lea County, New Mexico, Ground-Water Report 6*, New Mexico Bureau of Mines and Mineral Resources, Socorro, New Mexico, 120pp.

NMOSE – New Mexico Office of the State Engineer, iWaters website: **http://iwaters.ose.state.nm.us:7001/iWATERS/**

FIGURE 1

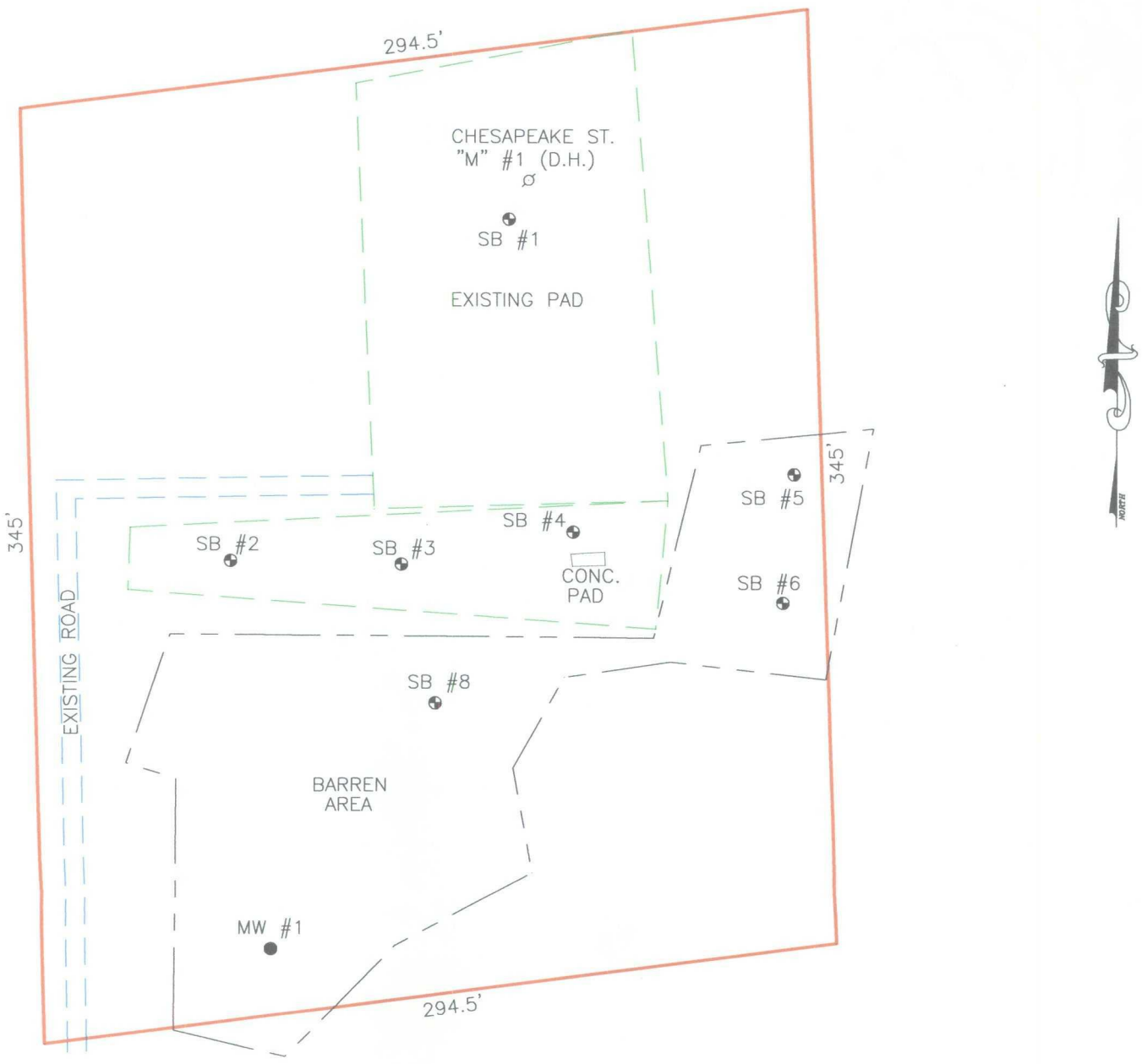
SITE DIAGRAM WITH SOIL BORINGS AND MONITOR WELLS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc.
Hobbs, NM

Prepared by:
BBC International, Inc.



60 0 60 120 FEET

Scale:1"=60'

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

BBC INTERNATIONAL

FIGURE 1 SITE DIAGRAM
AT THE STATE M-1 SWD IN
SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 7/9/07		Sheet 1 of 1 Sheets	
W.O. Number: 07.11.0846		Drawn By: L.A.	
Date: 7/19/07	DISK: CD#6	07110846	

FIGURE 2

ONE-MILE RADIUS MAP

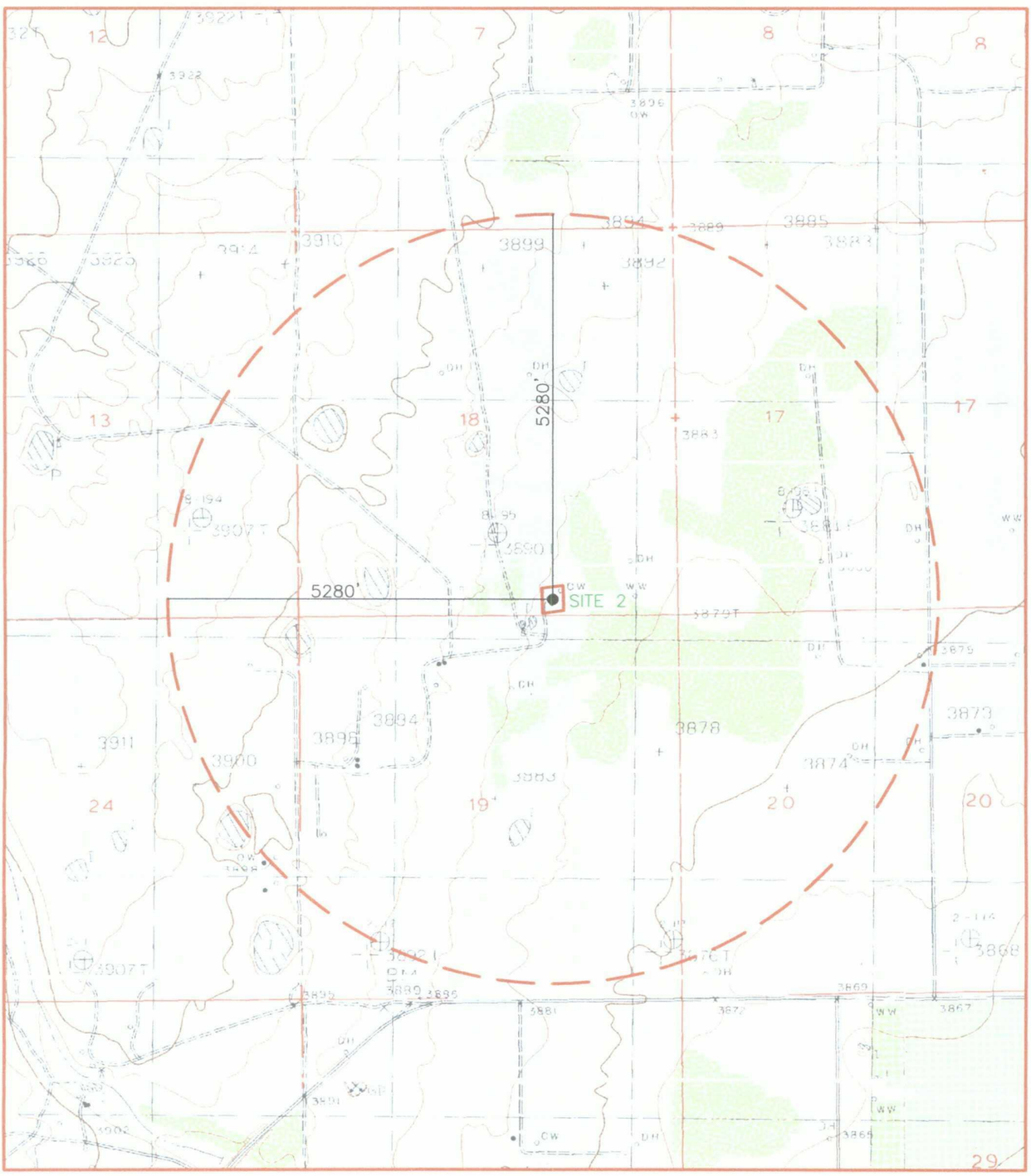
STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc.
Hobbs, NM

Prepared by:
BBC International, Inc.

SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



2000 0 2000 4000 FEET
Scale:1"=2000'

BBC INTERNATIONAL

FIGURE 2 ONE MILE RADIUS MAP
AT THE STATE M #1 SWD IN
SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 7/9/07		Sheet 1 of 1 Sheets	
W.O. Number: 07.11.0846		Drawn By: L.A.	
Date: 7/19/07	DISK: CD#6	07110846	

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

FIGURE 3

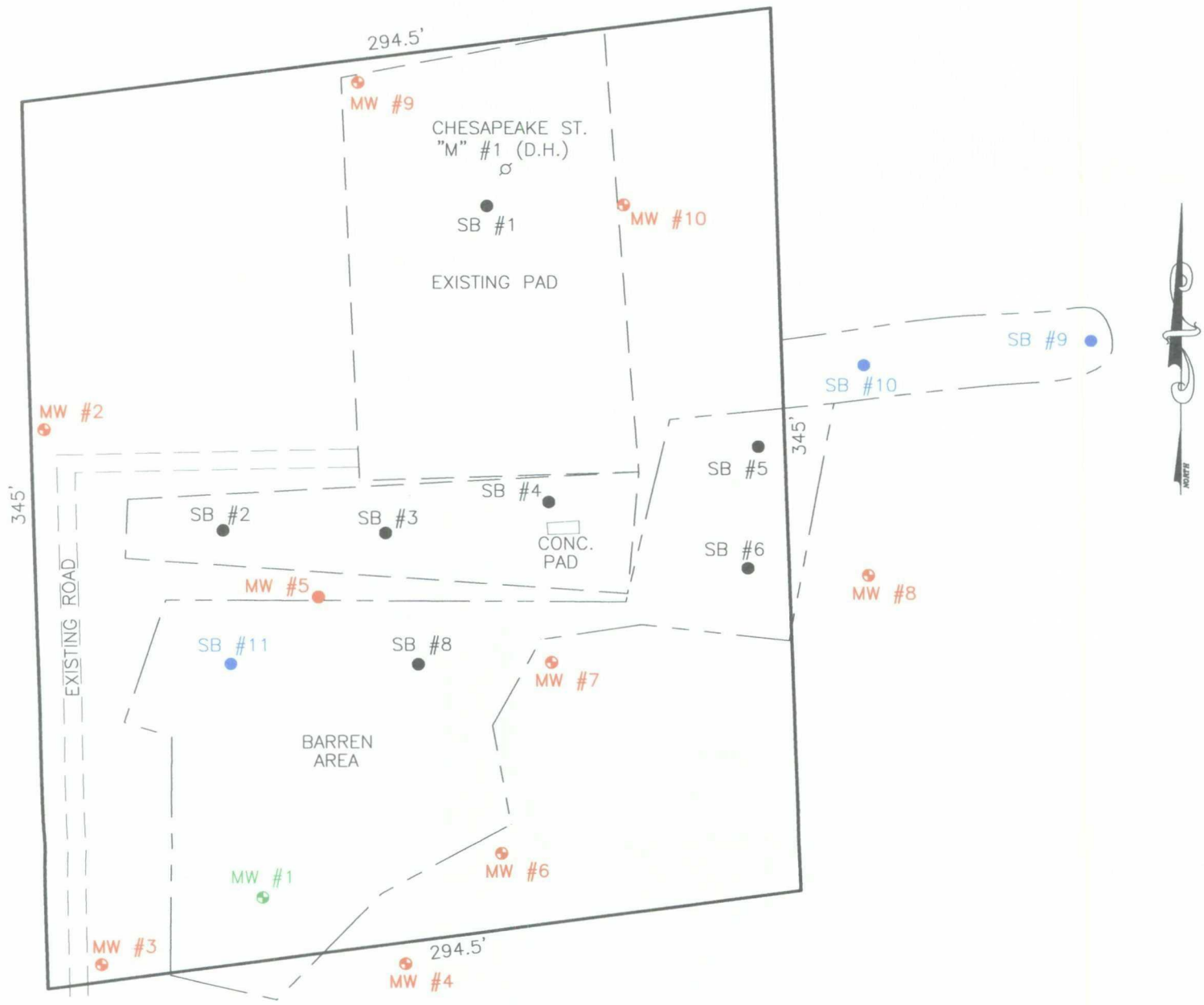
PROPOSED SOIL BORING AND MONITOR WELLS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc.
Hobbs, NM

Prepared by:
BBC International, Inc.



● – PROPOSED MONITORING WELL

● – PROPOSED SOIL BORING

● – EXISTING SOIL BORING

● – EXISTING MONITORING WELL

60 0 60 120 FEET

Scale:1"=60'

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

BBC INTERNATIONAL

FIGURE 3 SITE DIAGRAM

AT THE STATE M-1 SWD IN
SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 7/9/07		Sheet 1 of 1 Sheets	
W.O. Number: 07.11.0846		Drawn By: L.A.	
Date: 7/19/07	DISK: CD#6	07110846	REV: 8/20/07

APPENDIX I

CORRESPONDENCE

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc.
Hobbs, NM

Prepared by:
BBC International, Inc.

Cliff P. Brunson

From: Cliff P. Brunson [cbrunson@bbcinternational.com]

Sent: Wednesday, May 30, 2007 6:15 PM

To: Wayne Price

Cc: Bradley Blevins; Harlan Brown; Curtis Blake; Ken Swinney; Jennifer Gilkey

Subject: Chesapeake State M #1 SWD Battery-Groundwater Impact Notification

Mr. Price,

This Email is formal notification that Chesapeake Operating, Inc. has encountered a hydrocarbon impacted ground water bearing formation at the State M #1 SWD Battery during a site investigation prior to reclamation of the abandoned facility. During the investigation and assessment activities, a soil boring was advanced to the south of the battery to groundwater. Hydrocarbons were encountered in the soil during the advancement and a permanent monitor well was installed. The well was developed and measured 5.9 feet of free phase hydrocarbons on the water table. The following is general information regarding the site:

Name: State M #1 SWD Battery;

Operator: Chesapeake Operating, Inc.;

Location: Township 17S, Range 36E, Section 18;

County: Lea County, New Mexico; and

Depth to ground water: 42.3 feet (based on a measurement from the top of the casing of the monitor well).

Chesapeake has ceased investigation activities until further direction from the NMOCD.

Chesapeake will keep the NMOCD informed of any activities at the site.

As you are aware Chesapeake is currently working with Glenn Von Gonten on another remediation site in Lea County and would like to request Glenn as our point of contact on this site.

If you have questions, please contact me at (505) 397-6388 or via email at cbrunson@bbcinternational.com or Bradley Blevins of Chesapeake at (505) 391-1462, ext. 6224 or via e-mail at bblevins@chkenergy.com.

Best regards,

Cliff Brunson

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland Blvd.

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

JUNE 19, 2007

Mr. Brad Blevins
Chesapeake Operating, Inc.
P.O. Box 190
Hobbs, NM 88240

RE: REQUIREMENT TO SUBMIT ABATEMENT PLAN
CHESAPEAKE STATE M-1
UNIT LETTER "O", SECTION 18, TOWNSHIP 17 SOUTH, RANGE 36 EAST
LEA COUNTY, NEW MEXICO
AP072

Dear Mr. Blevins:

The New Mexico Oil Conservation Division (OCD) has determined after reviewing the notice submitted by BBC International on behalf of Chesapeake Operating, Inc. (Chesapeake), that Chesapeake must submit a Stage 1 Abatement Plan in accordance with OCD Rule 19 (19.15.1.19 NMAC) to investigate ground water contamination at its State M-1 SWD Tank Battery site located in Unit Letter "O", Section 18, Township 17 South, Range 36 East, Lea County, New Mexico. OCD is requiring an abatement plan because hydrocarbons released from Chesapeake's SWD Tank Battery has contaminated ground water at concentrations that exceed the WQCC ground water protection standards specified at 20.6.2.3103 NMAC.

The Stage 1 Abatement Plan proposal must be submitted to the OCD Santa Fe Office with a copy provided to the OCD Hobbs District Office and must meet of all the requirements specified in Rule 19 (19.15.1.19 NMAC), including, but not limited to, the public notice and participation requirements specified in Rule 19G. The Stage 1 Abatement Plan is due sixty (60) days from the receipt by Chesapeake of this written notice.

The Stage 1 Abatement Plan must meet all of the requirements specified in OCD Rule 19E.3, including, but not limited to, a site investigation work plan and monitoring program that will enable it to characterize the release using an appropriate number of isoconcentration maps and

cross sections that depict the contamination and to provide the data necessary to select and design an effective abatement option.

In addition to the Stage 1 Abatement Plan, Chesapeake must also submit a Form C-141 to document this release and impact to ground water. Chesapeake should submit one paper copy and one electronic copy of all future workplans and/or reports and must include the Case Number (AP072) on all future correspondence. If you have any questions, please contact Glenn von Gonten of my staff at (505) 476-3488.

Sincerely,

Wayne Price
Environmental Bureau Chief

LWP:gvg

cc: Larry Johnson, OCD Hobbs District

APPENDIX II

ANALYTICAL DATA

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc.
Hobbs, NM

Prepared by:
BBC International, Inc.

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: May 14, 2007

Work Order: 7050717

Project Location: Buckeye,NM
Project Name: State M SWD

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123484	SB1 @ 1 #004004	soil	2007-05-03	11:14	2007-05-05
123485	SB1 @ 3 #004001	soil	2007-05-03	11:15	2007-05-05
123486	SB1 @ 5 #003895	soil	2007-05-03	11:16	2007-05-05
123487	SB1 @ 20' #003929	soil	2007-05-03	11:33	2007-05-05
123488	SB1 @ 39' #003881	soil	2007-05-03	12:29	2007-05-05

	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
123484 - SB1 @ 1 #004004	<0.0100	<0.0100	<0.0100	0.168		110	36.4
123485 - SB1 @ 3 #004001	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
123486 - SB1 @ 5 #003895	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
123487 - SB1 @ 20' #003929	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
123488 - SB1 @ 39' #003881	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00

Sample: 123484 - SB1 @ 1 #004004

Param	Flag	Result	Units	RL
Chloride		1790	mg/Kg	1.00

Sample: 123485 - SB1 @ 3 #004001

Param	Flag	Result	Units	RL
Chloride		617	mg/Kg	1.00

Sample: 123486 - SB1 @ 5 #003895

Param	Flag	Result	Units	RL
Chloride		2120	mg/Kg	1.00

Sample: 123487 - SB1 @ 20' #003929

Param	Flag	Result	Units	RL
Chloride		5140	mg/Kg	1.00

Sample: 123488 - SB1 @ 39' #003881

Param	Flag	Result	Units	RL
Chloride		408	mg/Kg	1.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: May 14, 2007

Work Order: 7050717

Project Location: Buckeye,NM
Project Name: State M SWD
Project Number: State M SWD

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
123484	SB1 @ 1 #004004	soil	2007-05-03	11:14	2007-05-05
123485	SB1 @ 3 #004001	soil	2007-05-03	11:15	2007-05-05
123486	SB1 @ 5 #003895	soil	2007-05-03	11:16	2007-05-05
123487	SB1 @ 20' #003929	soil	2007-05-03	11:33	2007-05-05
123488	SB1 @ 39' #003881	soil	2007-05-03	12:29	2007-05-05

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.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project State M SWD were received by TraceAnalysis, Inc. on 2007-05-05 and assigned to work order 7050717. Samples for work order 7050717 were received intact at a temperature of 4 C.

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

Test	Method
BTEX	S 8021B
Chloride (IC)	E 300.0
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 7050717 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.

Analytical Report

Sample: 123484 - SB1 @ 1 #004004

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37038	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

Parameter	Flag	RL 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		**0.168**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.850	mg/Kg	1	1.00	85	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.39	mg/Kg	1	1.00	139	48.7 - 146

Sample: 123484 - SB1 @ 1 #004004

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37168	Date Analyzed:	2007-05-11	Analyzed By:	ER
Prep Batch:	32245	Sample Preparation:	2007-05-11	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1790**	mg/Kg	100	1.00

Sample: 123484 - SB1 @ 1 #004004

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37046	Date Analyzed:	2007-05-07	Analyzed By:	DS
Prep Batch:	32141	Sample Preparation:	2007-05-07	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**110**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		206	mg/Kg	1	150	137	33.3 - 164

Sample: 123484 - SB1 @ 1 #004004

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37060	Date Analyzed:	2007-05-08	Analyzed By:	MT
Prep Batch:	32152	Sample Preparation:	2007-05-08	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**36.4**	mg/Kg	10	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.880	mg/Kg	10	1.00	88	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.09	mg/Kg	10	1.00	109	10 - 227

Sample: 123485 - SB1 @ 3 #004001

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37038	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.821	mg/Kg	1	1.00	82	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.805	mg/Kg	1	1.00	80	48.7 - 146

Sample: 123485 - SB1 @ 3 #004001

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37168	Date Analyzed:	2007-05-11	Analyzed By:	ER
Prep Batch:	32245	Sample Preparation:	2007-05-11	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**617**	mg/Kg	50	1.00

Sample: 123485 - SB1 @ 3 #004001

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37046	Date Analyzed:	2007-05-07	Analyzed By:	DS
Prep Batch:	32141	Sample Preparation:	2007-05-07	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		209	mg/Kg	1	150	139	33.3 - 164

Sample: 123485 - SB1 @ 3 #004001

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37039	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	10 - 227

Sample: 123486 - SB1 @ 5 #003895

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37038	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.786	mg/Kg	1	1.00	79	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.772	mg/Kg	1	1.00	77	48.7 - 146

Sample: 123486 - SB1 @ 5 #003895

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37168	Date Analyzed:	2007-05-11	Analyzed By:	ER
Prep Batch:	32245	Sample Preparation:	2007-05-11	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2120	mg/Kg	100	1.00

Sample: 123486 - SB1 @ 5 #003895

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37046	Date Analyzed:	2007-05-07	Analyzed By:	DS
Prep Batch:	32141	Sample Preparation:	2007-05-07	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		197	mg/Kg	1	150	131	33.3 - 164

Sample: 123486 - SB1 @ 5 #003895

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37039	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.974	mg/Kg	1	1.00	97	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.996	mg/Kg	1	1.00	100	10 - 227

Sample: 123487 - SB1 @ 20' #003929

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37038	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.791	mg/Kg	1	1.00	79	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.770	mg/Kg	1	1.00	77	48.7 - 146

Sample: 123487 - SB1 @ 20' #003929

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37168	Date Analyzed:	2007-05-11	Analyzed By:	ER
Prep Batch:	32245	Sample Preparation:	2007-05-11	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		5140	mg/Kg	500	1.00

Sample: 123487 - SB1 @ 20' #003929

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37046	Date Analyzed:	2007-05-07	Analyzed By:	DS
Prep Batch:	32141	Sample Preparation:	2007-05-07	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		184	mg/Kg	1	150	123	33.3 - 164

Sample: 123487 - SB1 @ 20' #003929

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37039	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.986	mg/Kg	1	1.00	99	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.975	mg/Kg	1	1.00	98	10 - 227

Sample: 123488 - SB1 @ 39' #003881

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37038	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.731	mg/Kg	1	1.00	73	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.701	mg/Kg	1	1.00	70	48.7 - 146

Sample: 123488 - SB1 @ 39' #003881

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37168	Date Analyzed:	2007-05-11	Analyzed By:	ER
Prep Batch:	32245	Sample Preparation:	2007-05-11	Prepared By:	ER

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		408		mg/Kg	50	1.00

Sample: 123488 - SB1 @ 39' #003881

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37046	Date Analyzed:	2007-05-07	Analyzed By:	DS
Prep Batch:	32141	Sample Preparation:	2007-05-07	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		186	mg/Kg	1	150	124	33.3 - 164

Sample: 123488 - SB1 @ 39' #003881

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37039	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	Sample Preparation:	2007-05-07	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.894	mg/Kg	1	1.00	89	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.873	mg/Kg	1	1.00	87	10 - 227

Method Blank (1) QC Batch: 37038

QC Batch:	37038	Date Analyzed:	2007-05-07	Analyzed By:	MT
Prep Batch:	32135	QC Preparation:	2007-05-07	Prepared By:	MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.01
Toluene		<0.00372	mg/Kg	0.01
Ethylbenzene		<0.00206	mg/Kg	0.01
Xylene		<0.00259	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.777	mg/Kg	1	1.00	78	73.2 - 113
4-Bromofluorobenzene (4-BFB)		0.554	mg/Kg	1	1.00	55	54 - 102

Method Blank (1) QC Batch: 37039

QC Batch: 37039 | Date Analyzed: 2007-05-07 | Analyzed By: MT
Prep Batch: 32135 | QC Preparation: 2007-05-07 | Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.993	mg/Kg	1	1.00	99	73.2 - 125
4-Bromofluorobenzene (4-BFB)		0.680	mg/Kg	1	1.00	68	51.9 - 110

Method Blank (1) QC Batch: 37046

QC Batch: 37046 | Date Analyzed: 2007-05-07 | Analyzed By: DS
Prep Batch: 32141 | QC Preparation: 2007-05-07 | Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
DRO		<22.3	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		204	mg/Kg	1	150	136	33.3 - 164

Method Blank (1) QC Batch: 37060

QC Batch: 37060 | Date Analyzed: 2007-05-08 | Analyzed By: MT
Prep Batch: 32152 | QC Preparation: 2007-05-08 | Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.05	mg/Kg	1	1.00	105	73.2 - 125
4-Bromofluorobenzene (4-BFB)		0.827	mg/Kg	1	1.00	83	51.9 - 110

Method Blank (1) QC Batch: 37168

QC Batch: 37168 | Date Analyzed: 2007-05-11 | Analyzed By: ER
Prep Batch: 32245 | QC Preparation: 2007-05-11 | Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Laboratory Control Spike (LCS-1)

QC Batch: 37038 | Date Analyzed: 2007-05-07 | Analyzed By: MT
Prep Batch: 32135 | QC Preparation: 2007-05-07 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.882	mg/Kg	1	1.00	<0.00333	88	76.3 - 117
Toluene	0.866	mg/Kg	1	1.00	<0.00372	87	77.3 - 114
Ethylbenzene	0.833	mg/Kg	1	1.00	<0.00206	83	75.4 - 115
Xylene	2.47	mg/Kg	1	3.00	<0.00259	82	73.2 - 112

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.918	mg/Kg	1	1.00	<0.00333	92	76.3 - 117	4	20
Toluene	0.906	mg/Kg	1	1.00	<0.00372	91	77.3 - 114	4	20
Ethylbenzene	0.875	mg/Kg	1	1.00	<0.00206	88	75.4 - 115	5	20
Xylene	2.60	mg/Kg	1	3.00	<0.00259	87	73.2 - 112	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.826	0.842	mg/Kg	1	1.00	83	84	74.5 - 113
4-Bromofluorobenzene (4-BFB)	0.747	0.766	mg/Kg	1	1.00	75	77	68.3 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 37039 | Date Analyzed: 2007-05-07 | Analyzed By: MT
Prep Batch: 32135 | QC Preparation: 2007-05-07 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.20	mg/Kg	1	10.0	<0.459	92	79.6 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.14	mg/Kg	1	10.0	<0.459	91	79.6 - 113	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.00	0.950	mg/Kg	1	1.00	100	95	77.1 - 117
4-Bromofluorobenzene (4-BFB)	0.878	0.825	mg/Kg	1	1.00	88	82	78.1 - 118

Laboratory Control Spike (LCS-1)

QC Batch: 37046 | Date Analyzed: 2007-05-07 | Analyzed By: DS
Prep Batch: 32141 | QC Preparation: 2007-05-07 | Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	292	mg/Kg	1	250	<22.3	117	54.3 - 149

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	258	mg/Kg	1	250	<22.3	103	54.3 - 149	12	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	179	168	mg/Kg	1	150	119	112	33.3 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 37060 | Date Analyzed: 2007-05-08 | Analyzed By: MT
Prep Batch: 32152 | QC Preparation: 2007-05-08 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.30	mg/Kg	1	10.0	<0.459	93	79.6 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	10.0	mg/Kg	1	10.0	<0.459	100	79.6 - 113	8	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.980	1.04	mg/Kg	1	1.00	98	104	77.1 - 117
4-Bromofluorobenzene (4-BFB)	0.910	0.969	mg/Kg	1	1.00	91	97	78.1 - 118

Laboratory Control Spike (LCS-1)

QC Batch: 37168 | Date Analyzed: 2007-05-11 | Analyzed By: ER
Prep Batch: 32245 | QC Preparation: 2007-05-11 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.1	mg/Kg	1	12.5	<0.140	97	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	13.2	mg/Kg	1	12.5	<0.140	106	90 - 110	9	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: 123484

QC Batch: 37038 | Date Analyzed: 2007-05-07 | Analyzed By: MT
Prep Batch: 32135 | QC Preparation: 2007-05-07 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.784	mg/Kg	1	1.00	<0.00333	78	39.6 - 141
Toluene	0.876	mg/Kg	1	1.00	<0.00372	88	45.4 - 138
Ethylbenzene	0.917	mg/Kg	1	1.00	<0.00206	92	48 - 141
Xylene	3.03	mg/Kg	1	3.00	0.168	95	45.3 - 142

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.792	mg/Kg	1	1.00	<0.00333	79	39.6 - 141	1	20
Toluene	0.887	mg/Kg	1	1.00	<0.00372	89	45.4 - 138	1	20
Ethylbenzene	0.950	mg/Kg	1	1.00	<0.00206	95	48 - 141	4	20
Xylene	2.83	mg/Kg	1	3.00	0.168	89	45.3 - 142	7	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.862	0.876	mg/Kg	1	1	86	88	51.5 - 138
4-Bromofluorobenzene (4-BFB)	1.18	1.36	mg/Kg	1	1	118	136	52.2 - 139

Matrix Spike (MS-1) Spiked Sample: 123487

QC Batch: 37046 | Date Analyzed: 2007-05-07 | Analyzed By: DS
Prep Batch: 32141 | QC Preparation: 2007-05-07 | Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	264	mg/Kg	1	250	<22.3	106	35.1 - 161

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	259	mg/Kg	1	250	<22.3	104	35.1 - 161	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	170	165	mg/Kg	1	150	113	110	33.3 - 164

Matrix Spike (MS-1) Spiked Sample: 123492

QC Batch: 37168 | Date Analyzed: 2007-05-11 | Analyzed By: ER
Prep Batch: 32245 | QC Preparation: 2007-05-11 | Prepared By: ER

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[1]	430	mg/Kg	50	625	242.786	30	75.6 - 117

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[2]	370	mg/Kg	50	625	242.786	20	75.6 - 117	15	20

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

Standard (ICV-1)

QC Batch: 37038 | Date Analyzed: 2007-05-07 | Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0897	90	85 - 115	2007-05-07
Toluene		mg/Kg	0.100	0.0905	90	85 - 115	2007-05-07
Ethylbenzene		mg/Kg	0.100	0.0869	87	85 - 115	2007-05-07
Xylene		mg/Kg	0.300	0.259	86	85 - 115	2007-05-07

Standard (CCV-1)

QC Batch: 37038 | Date Analyzed: 2007-05-07 | Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0893	89	85 - 115	2007-05-07
Toluene		mg/Kg	0.100	0.0876	88	85 - 115	2007-05-07
Ethylbenzene		mg/Kg	0.100	0.0854	85	85 - 115	2007-05-07
Xylene		mg/Kg	0.300	0.256	85	85 - 115	2007-05-07

Standard (ICV-1)

QC Batch: 37039 | Date Analyzed: 2007-05-07 | Analyzed By: MT

[1]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[2]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.926	92	85 - 115	2007-05-07

Standard (CCV-1)

QC Batch: 37039 Date Analyzed: 2007-05-07 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.937	94	85 - 115	2007-05-07

Standard (ICV-1)

QC Batch: 37046 Date Analyzed: 2007-05-07 Analyzed By: DS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	254	102	85 - 115	2007-05-07

Standard (CCV-1)

QC Batch: 37046 Date Analyzed: 2007-05-07 Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	260	104	85 - 115	2007-05-07

Standard (ICV-1)

QC Batch: 37060 Date Analyzed: 2007-05-08 Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.934	93	85 - 115	2007-05-08

Standard (CCV-1)

QC Batch: 37060 Date Analyzed: 2007-05-08 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.920	92	85 - 115	2007-05-08

Standard (ICV-1)

QC Batch: 37168 Date Analyzed: 2007-05-11 Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.2	98	90 - 110	2007-05-11

Standard (CCV-1)

QC Batch: 37168 Date Analyzed: 2007-05-11 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.2	98	90 - 110	2007-05-11

1 of 1

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #: 705017

Company Name: BBC International
Phone #: (505) 397 6388
Address: (Street, City, Zip) 1324 W. Marland
Fax #: (505) 397 0397
Contact Person: Cliff Bamson
E-mail:
Invoice to: (If different from above)
Project #:
Project Name: State M. SWD
Project Location (including state): Buckeye NM
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO3	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
123484	SB1@1 #004004	1	4 oz		✓							✓		5-3-07	11:14
85	SB1@3 #004001	1	4 oz		✓							✓		5-3-07	11:15
86	SB1@5 #003895	1	4 oz		✓							✓		5-3-07	11:16
87	SB1@20' #003929	1	4 oz		✓							✓		5-3-07	11:33
88	SB1@39' #003881	1	4 oz		✓							✓		5-3-07	12:29

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / [illegible]	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride					Turn Around Time if different from standard	Hold
	✓		✓													✓	✓						
	✓		✓													✓	✓						
	✓		✓													✓	✓						
	✓		✓													✓	✓						
	✓		✓													✓	✓						

Relinquished by: Date: 5-3-07 Time: 4:00
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: 050307 Time: 1030

LAB USE ONLY
Intact Y N
Headspace Y N
Temp 4 °C
Log-In Review

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier #

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 7050717

Company Name: BBC International
Phone #: (505) 397 6388

Address: (Street, City, Zip) 1324 W. Marland
Fax #: (505) 397 0397

Contact Person: Cliff Brunson
E-mail:

Invoice to: (If different from above)

Project #:
Project Name: State M SWD

Project Location (including state): Buckeye NM
Sampler Signature: [signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride					Turn Around Time if different from standard	Hold
123484	SB1 @ 1 #004004	1	4 oz		✓							✓		5-3-07	11:14		✓		✓														✓						
85	SB1 @ 3 #004001	1	4 oz		✓							✓		5-3-07	11:15		✓		✓														✓						
86	SB1 @ 5 #003895	1	4 oz		✓							✓		5-3-07	11:16		✓		✓														✓						
87	SB1 @ 20' #003929	1	4 oz		✓							✓		5-3-07	11:33		✓		✓														✓						
88	SB1 @ 39' #003881	1	4 oz		✓							✓		5-3-07	12:29		✓		✓														✓						

Relinquished by: [signature] Date: 5-3-07 Time: 4:00
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: [signature] Date: 05-05-07 Time: 1030

LAB USE ONLY
Intact (Y) / N
Headspace Y / (N)
Temp 4°
Log-in-Review [initials]
Carrier # BUS

REMARKS:
☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

5/15 [initials]

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: June 4, 2007

Work Order: 7052524

Project Location: Buckeye,NM
Project Name: State M SWD

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125540	TMW	water	2007-05-23	15:02	2007-05-25

	BTEX				MTBE	TPH DRO	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE	DRO	GRO
Sample - Field Code	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
125540 - TMW	<0.00100	<0.00100	<0.00100	<0.00100		<5.00	<0.100

Sample: 125540 - TMW

Param	Flag	Result	Units	RL
Chloride		**108**	mg/L	0.500

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: June 4, 2007

Work Order: 7052524

Project Location: Buckeye,NM
Project Name: State M SWD
Project Number: State M SWD

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125540	TMW	water	2007-05-23	15:02	2007-05-25

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 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project State M SWD were received by TraceAnalysis, Inc. on 2007-05-25 and assigned to work order 7052524. Samples for work order 7052524 were received intact at a temperature of 4 C.

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

Test	Method
BTEX	S 8021B
Chloride (IC)	E 300.0
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 7052524 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.

Analytical Report

Sample: 125540 - TMW

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	37717	Date Analyzed:	2007-05-31	Analyzed By:	KB
Prep Batch:	32684	Sample Preparation:	2007-05-31	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	0.0585	mg/L	1	0.100	58	78.1 - 112
4-Bromofluorobenzene (4-BFB)		0.0637	mg/L	1	0.100	64	63.1 - 120

Sample: 125540 - TMW

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	37574	Date Analyzed:	2007-05-25	Analyzed By:	ER
Prep Batch:	32563	Sample Preparation:	2007-05-25	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**108**	mg/L	5	0.500

Sample: 125540 - TMW

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37556	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32552	Sample Preparation:	2007-05-25	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<5.00	mg/L	1	5.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		19.5	mg/L	1	15.0	130	40.7 - 174

Sample: 125540 - TMW

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5030B
QC Batch:	37718	Date Analyzed:	2007-05-31	Analyzed By:	KB
Prep Batch:	32684	Sample Preparation:	2007-05-31	Prepared By:	KB

[1]Surrogate TFT out due to matrix interference. Sample was reran on 6/1/2007 to confirm matrix interference results.

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<0.100	mg/L	1	0.100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	0.0603	mg/L	1	0.100	60	72.8 - 107
4-Bromofluorobenzene (4-BFB)	[3]	0.0644	mg/L	1	0.100	64	71 - 110

Method Blank (1) QC Batch: 37556

QC Batch: 37556 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32552 | QC Preparation: 2007-05-25 | Prepared By: TG

Parameter	Flag	MDL Result	Units	RL
DRO		<1.06	mg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		26.0	mg/L	1	15.0	173	40.7 - 174

Method Blank (1) QC Batch: 37574

QC Batch: 37574 | Date Analyzed: 2007-05-25 | Analyzed By: ER
Prep Batch: 32563 | QC Preparation: 2007-05-25 | Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.172	mg/L	0.5

Method Blank (1) QC Batch: 37717

QC Batch: 37717 | Date Analyzed: 2007-05-31 | Analyzed By: KB
Prep Batch: 32684 | QC Preparation: 2007-05-31 | Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000247	mg/L	0.001
Toluene		<0.000257	mg/L	0.001
Ethylbenzene		<0.000336	mg/L	0.001
Xylene		<0.000218	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0905	mg/L	1	0.100	90	77.3 - 113
4-Bromofluorobenzene (4-BFB)		0.0941	mg/L	1	0.100	94	77.2 - 116

[2]Surrogate TFT out due to matrix interference. Sample was reran on 6/1/2007 to confirm matrix interference results.
[3]Surrogate BFB out due to matrix interference. Sample was reran on 6/1/2007 to confirm matrix interference results.

Method Blank (1) QC Batch: 37718

QC Batch: 37718 | Date Analyzed: 2007-05-31 | Analyzed By: KB
Prep Batch: 32684 | QC Preparation: 2007-05-31 | Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		<0.0104	mg/L	0.1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0929	mg/L	1	0.100	93	68 - 117
4-Bromofluorobenzene (4-BFB)		0.0938	mg/L	1	0.100	94	75.8 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 37556 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32552 | QC Preparation: 2007-05-25 | Prepared By: TG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	22.3	mg/L	1	25.0	<1.06	89	56.9 - 128

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	26.7	mg/L	1	25.0	<1.06	107	56.9 - 128	18	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	22.9	24.9	mg/L	1	15.0	153	166	40.7 - 174

Laboratory Control Spike (LCS-1)

QC Batch: 37574 | Date Analyzed: 2007-05-25 | Analyzed By: ER
Prep Batch: 32563 | QC Preparation: 2007-05-25 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	13.1	mg/L	1	12.5	<0.172	105	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.1	mg/L	1	12.5	<0.172	97	90 - 110	8	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: 37717 | Date Analyzed: 2007-05-31 | Analyzed By: KB
Prep Batch: 32684 | QC Preparation: 2007-05-31 | Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0934	mg/L	1	0.100	<0.000247	93	82 - 118
Toluene	0.0935	mg/L	1	0.100	<0.000257	94	81.4 - 118
Ethylbenzene	0.0942	mg/L	1	0.100	<0.000336	94	81.5 - 120
Xylene	0.291	mg/L	1	0.300	<0.000218	97	82.2 - 121

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0971	mg/L	1	0.100	<0.000247	97	82 - 118	4	20
Toluene	0.0971	mg/L	1	0.100	<0.000257	97	81.4 - 118	4	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.000336	101	81.5 - 120	7	20
Xylene	0.306	mg/L	1	0.300	<0.000218	102	82.2 - 121	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0815	0.0852	mg/L	1	0.100	82	85	75.7 - 113
4-Bromofluorobenzene (4-BFB)	0.0925	0.0941	mg/L	1	0.100	92	94	75.8 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 37718 | Date Analyzed: 2007-05-31 | Analyzed By: KB
Prep Batch: 32684 | QC Preparation: 2007-05-31 | Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	1.02	mg/L	1	1.00	<0.0104	102	72 - 131

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	1.03	mg/L	1	1.00	<0.0104	103	72 - 131	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.104	mg/L	1	0.100	101	104	72.1 - 120
4-Bromofluorobenzene (4-BFB)	0.101	0.103	mg/L	1	0.100	101	103	80.9 - 114

Matrix Spike (MS-1) Spiked Sample: 125540

QC Batch: 37556 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32552 | QC Preparation: 2007-05-25 | Prepared By: TG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	17.5	mg/L	1	25.0	<1.06	70	61.9 - 112.2

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	17.7	mg/L	1	25.0	<1.06	71	61.9 - 112.2	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	20.9	21.2	mg/L	1	15	139	141	40.7 - 174

Matrix Spike (MS-1) Spiked Sample: 125097

QC Batch: 37574 | Date Analyzed: 2007-05-25 | Analyzed By: ER
Prep Batch: 32563 | QC Preparation: 2007-05-25 | Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	125000	mg/L	5000	62500	39397.4	137	10 - 188

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	111000	mg/L	5000	62500	39397.4	114	10 - 188	12	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: 125592

QC Batch: 37718 | Date Analyzed: 2007-05-31 | Analyzed By: KB
Prep Batch: 32684 | QC Preparation: 2007-05-31 | Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO [4]	5.30	mg/L	10	10.0	<0.104	53	55 - 138

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO [5]	7.44	mg/L	10	10.0	<0.104	74	55 - 138	34	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT) [6]	0.716	0.845	mg/L	10	1	72	84	75.5 - 111

continued . . .

[4]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[5]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	[7] [8]	0.677	0.798	mg/L	10	1	68	80	92.3 - 102

Standard (ICV-1)

QC Batch: 37556 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	233	93	85 - 115	2007-05-26

Standard (CCV-1)

QC Batch: 37556 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/L	250	226	90	85 - 115	2007-05-26

Standard (ICV-1)

QC Batch: 37574 Date Analyzed: 2007-05-25 Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.3	98	90 - 110	2007-05-25

Standard (CCV-1)

QC Batch: 37574 Date Analyzed: 2007-05-25 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.8	102	90 - 110	2007-05-25

Standard (ICV-1)

QC Batch: 37717 Date Analyzed: 2007-05-31 Analyzed By: KB

[7] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[8] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0981	98	85 - 115	2007-05-31
Toluene		mg/L	0.100	0.0985	98	85 - 115	2007-05-31
Ethylbenzene		mg/L	0.100	0.0998	100	85 - 115	2007-05-31
Xylene		mg/L	0.300	0.307	102	85 - 115	2007-05-31

Standard (CCV-1)

QC Batch: 37717 Date Analyzed: 2007-05-31 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0992	99	85 - 115	2007-05-31
Toluene		mg/L	0.100	0.101	101	85 - 115	2007-05-31
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2007-05-31
Xylene		mg/L	0.300	0.312	104	85 - 115	2007-05-31

Standard (ICV-1)

QC Batch: 37718 Date Analyzed: 2007-05-31 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	0.997	100	85 - 115	2007-05-31

Standard (CCV-1)

QC Batch: 37718 Date Analyzed: 2007-05-31 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/L	1.00	1.03	103	85 - 115	2007-05-31

LAB Order ID # 765254 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296

5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313

200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443

6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: BBC International
Phone #: (505) 3976388
Address: (Street, City, Zip) 1324 W. Marland Hobbs NM
Fax #: (505) 3970397
Contact Person: Cliff Brunson
E-mail:
Invoice to: (If different from above) "
Project #:
Project Name: State M. SWD
Project Location (including state): Buckeye New Mexico
Sampler Signature: [signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125540	TMW	1	500	✓				✓				✓		5/23	3:02
40	TMW	9	VOA	✓				✓				✓		5/23	3:02

LAB #	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / ~~602~~ / ~~8260B~~ / ~~624~~	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / ~~TVHC~~	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride	Turn Around Time if different from standard	Hold
125540		✓		✓														✓		
40		✓		✓														✓		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Roger Hernandez	5/24/07	12:00			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Alvin Conyler	Date: 05/25/07	Time: 11:40 AM

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4°C
Log-In-Review [initials]

REMARKS:

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Bus / GLT 3040600585

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: BBC International
Phone #: (505) 3976388

Address: (Street, City, Zip) 1324 W. Marland Hobbs NM
Fax #: (505) 3970397

Contact Person: Cliff Brunson
E-mail:

Invoice to: (If different from above)

Project #:
Project Name: State M. SWD

Project Location (including state): Buckeye New Mexico
Sampler Signature: [signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE		SAMPLING: DATE	TIME
125540	TMW	1	500	✓					✓				✓			5/23	3:02
40	TMW	9	VOA	✓					✓				✓			5/23	3:02

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / ~~602~~ / ~~8260B~~ / ~~624~~	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / ~~TVHC~~	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride							Turn Around Time if different from standard	Hold
125540		✓		✓														✓								
40		✓		✓														✓								

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Roger Hernandez	5/24/07	17:00			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			[signature]	05/25/07	11:40AM

LAB USE ONLY

Intact (Y) / N
Headspace Y / N
Temp 4°C
Log-in-Review [initials]

REMARKS:

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

6/4/07

Carrier # Bus/GLI 3040600595

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: June 20, 2007

Work Order: 7052526

Project Location: Buckeye,NM
Project Name: State M SWD

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125556	SB2 @ 1'	soil	2007-05-22	08:05	2007-05-25
125557	SB2 @ 3'	soil	2007-05-22	08:06	2007-05-25
125558	SB2 @ 5'	soil	2007-05-22	08:07	2007-05-25
125559	SB2 @ 30'	soil	2007-05-22	09:04	2007-05-25
125560	SB2 @ 50'	soil	2007-05-22	10:45	2007-05-25
125561	SB3 @ 1'	soil	2007-05-22	11:06	2007-05-25
125562	SB3 @ 3'	soil	2007-05-22	11:07	2007-05-25
125563	SB3 @ 5'	soil	2007-05-22	11:08	2007-05-25
125564	SB3 @ 25'	soil	2007-05-22	11:40	2007-05-25
125565	SB3 @ 39'	soil	2007-05-22	12:14	2007-05-25
125566	SB4 @ 1'	soil	2007-05-22	13:20	2007-05-25
125567	SB4 @ 3'	soil	2007-05-22	13:21	2007-05-25
125568	SB4 @ 5'	soil	2007-05-22	13:22	2007-05-25
125569	SB4 @ 20'	soil	2007-05-22	13:48	2007-05-25
125570	SB4 @ 39'	soil	2007-05-22	14:30	2007-05-25
125571	SB5 @ 1'	soil	2007-05-22	14:57	2007-05-25
125572	SB5 @ 3'	soil	2007-05-22	14:58	2007-05-25
125573	SB5 @ 5'	soil	2007-05-22	15:00	2007-05-25
125574	SB5 @ 20'	soil	2007-05-22	15:37	2007-05-25
125575	SB5 @ 35'	soil	2007-05-22	16:00	2007-05-25
125576	SB6 @ 1'	soil	2007-05-22	00:00	2007-05-25
125577	SB6 @ 3'	soil	2007-05-22	00:00	2007-05-25
125578	SB6 @ 5'	soil	2007-05-22	00:00	2007-05-25
125579	SB6 @ 15'	soil	2007-05-22	00:00	2007-05-25
125580	SB6 @ 35'	soil	2007-05-22	00:00	2007-05-25
125581	SB7 @ 1'	soil	2007-05-23	00:00	2007-05-25
125582	SB7 @ 3'	soil	2007-05-23	00:00	2007-05-25
125583	SB7 @ 5'	soil	2007-05-23	00:00	2007-05-25
125584	SB7 @ 20'	soil	2007-05-23	00:00	2007-05-25
125585	SB7 @ 39'	soil	2007-05-23	00:00	2007-05-25
125586	SB8 @ 1'	soil	2007-05-23	00:00	2007-05-25
125587	SB8 @ 3'	soil	2007-05-22	08:05	2007-05-25
125588	SB8 @ 5'	soil	2007-05-23	00:00	2007-05-25
125589	SB8 @ 20'	soil	2007-05-23	00:00	2007-05-25
125590	SB8 @ 39'	soil	2007-05-23	00:00	2007-05-25

Sample - Field Code	BTEX Benzene (mg/Kg)	BTEX Toluene (mg/Kg)	BTEX Ethylbenzene (mg/Kg)	BTEX Xylene (mg/Kg)	MTBE MTBE (mg/Kg)	TPH DRO DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
125556 - SB2 @ 1'	<0.200	<0.200	2.56	11.5		1430	657
125557 - SB2 @ 3'	<0.0100	<0.0100	0.0382	0.210		288	45.4
125558 - SB2 @ 5'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125559 - SB2 @ 30'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125560 - SB2 @ 50'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125561 - SB3 @ 1'	<0.200	<0.200	2.28	3.17		2710	270
125562 - SB3 @ 3'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	2.26
125563 - SB3 @ 5'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	1.11
125564 - SB3 @ 25'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125565 - SB3 @ 39'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125566 - SB4 @ 1'	<0.0100	<0.0100	<0.0100	0.0408		<50.0	16.4
125567 - SB4 @ 3'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125568 - SB4 @ 5'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125569 - SB4 @ 20'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125570 - SB4 @ 39'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125571 - SB5 @ 1'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125572 - SB5 @ 3'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125573 - SB5 @ 5'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125574 - SB5 @ 20'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125575 - SB5 @ 35'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125576 - SB6 @ 1'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125577 - SB6 @ 3'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125578 - SB6 @ 5'	<0.0100	<0.0100	<0.0100	<0.0100		1300	<1.00
125579 - SB6 @ 15'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125580 - SB6 @ 35'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125581 - SB7 @ 1'	0.0717	0.0699	0.157	0.244		814	21.1
125582 - SB7 @ 3'	<0.0100	<0.0100	<0.0100	0.478		4380	73.9
125583 - SB7 @ 5'	1.24	<0.200	0.948	4.05		16700	377
125584 - SB7 @ 20'	6.46	0.770	21.4	40.0		6620	1010
125585 - SB7 @ 39'	73.8	46.5	170	269		21600	8800
125586 - SB8 @ 1'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	5.65
125587 - SB8 @ 3'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125588 - SB8 @ 5'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125589 - SB8 @ 20'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00
125590 - SB8 @ 39'	<0.0100	<0.0100	<0.0100	<0.0100		<50.0	<1.00

Sample: 125556 - SB2 @ 1'

Param	Flag	Result	Units	RL
Chloride		2020	mg/Kg	1.00

Sample: 125557 - SB2 @ 3'

Param	Flag	Result	Units	RL
Chloride		402	mg/Kg	1.00

Sample: 125558 - SB2 @ 5'

Param	Flag	Result	Units	RL
Chloride		306	mg/Kg	1.00

Sample: 125559 - SB2 @ 30'

Param	Flag	Result	Units	RL
Chloride		2060	mg/Kg	1.00

Sample: 125560 - SB2 @ 50'

Param	Flag	Result	Units	RL
Chloride		43.5	mg/Kg	1.00

Sample: 125561 - SB3 @ 1'

Param	Flag	Result	Units	RL
Chloride		2720	mg/Kg	1.00

Sample: 125562 - SB3 @ 3'

Param	Flag	Result	Units	RL
Chloride		1270	mg/Kg	1.00

Sample: 125563 - SB3 @ 5'

Param	Flag	Result	Units	RL
Chloride		1400	mg/Kg	1.00

Sample: 125564 - SB3 @ 25'

Param	Flag	Result	Units	RL
Chloride		2530	mg/Kg	1.00

Sample: 125565 - SB3 @ 39'

Param	Flag	Result	Units	RL
Chloride		328	mg/Kg	1.00

Sample: 125566 - SB4 @ 1'

Param	Flag	Result	Units	RL
Chloride		120	mg/Kg	1.00

Sample: 125567 - SB4 @ 3'

Param	Flag	Result	Units	RL
Chloride		117	mg/Kg	1.00

Sample: 125568 - SB4 @ 5'

Param	Flag	Result	Units	RL
Chloride		238	mg/Kg	1.00

Sample: 125569 - SB4 @ 20'

Param	Flag	Result	Units	RL
Chloride		3310	mg/Kg	1.00

Sample: 125570 - SB4 @ 39'

Param	Flag	Result	Units	RL
Chloride		144	mg/Kg	1.00

Sample: 125571 - SB5 @ 1'

Param	Flag	Result	Units	RL
Chloride		1210	mg/Kg	1.00

Sample: 125572 - SB5 @ 3'

Param	Flag	Result	Units	RL
Chloride		882	mg/Kg	1.00

Sample: 125573 - SB5 @ 5'

Param	Flag	Result	Units	RL
Chloride		1490	mg/Kg	1.00

Sample: 125574 - SB5 @ 20'

Param	Flag	Result	Units	RL
Chloride		2080	mg/Kg	1.00

Sample: 125575 - SB5 @ 35'

Param	Flag	Result	Units	RL
Chloride		49.1	mg/Kg	1.00

Sample: 125576 - SB6 @ 1'

Param	Flag	Result	Units	RL
Chloride		414	mg/Kg	1.00

Sample: 125577 - SB6 @ 3'

Param	Flag	Result	Units	RL
Chloride		243	mg/Kg	1.00

Sample: 125578 - SB6 @ 5'

Param	Flag	Result	Units	RL
Chloride		705	mg/Kg	1.00

Sample: 125579 - SB6 @ 15'

Param	Flag	Result	Units	RL
Chloride		1460	mg/Kg	1.00

Sample: 125580 - SB6 @ 35'

Param	Flag	Result	Units	RL
Chloride		461	mg/Kg	1.00

Sample: 125581 - SB7 @ 1'

Param	Flag	Result	Units	RL
Chloride		42.8	mg/Kg	1.00

Sample: 125582 - SB7 @ 3'

Param	Flag	Result	Units	RL
Chloride		41.6	mg/Kg	1.00

Sample: 125583 - SB7 @ 5'

Param	Flag	Result	Units	RL
Chloride		210	mg/Kg	1.00

Sample: 125584 - SB7 @ 20'

Param	Flag	Result	Units	RL
Chloride		19.0	mg/Kg	1.00

Sample: 125585 - SB7 @ 39'

Param	Flag	Result	Units	RL
Chloride		24.9	mg/Kg	1.00

Sample: 125586 - SB8 @ 1'

Param	Flag	Result	Units	RL
Chloride		10800	mg/Kg	1.00

Sample: 125587 - SB8 @ 3'

Param	Flag	Result	Units	RL
Chloride		290	mg/Kg	1.00

Sample: 125588 - SB8 @ 5'

Param	Flag	Result	Units	RL
Chloride		303	mg/Kg	1.00

Sample: 125589 - SB8 @ 20'

Param	Flag	Result	Units	RL
Chloride		2190	mg/Kg	1.00

Sample: 125590 - SB8 @ 39'

Param	Flag	Result	Units	RL
Chloride		263	mg/Kg	1.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM, 88240

Report Date: June 20, 2007

Work Order: 7052526

Project Location: Buckeye,NM
Project Name: State M SWD
Project Number: State M SWD

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125556	SB2 @ 1'	soil	2007-05-22	08:05	2007-05-25
125557	SB2 @ 3'	soil	2007-05-22	08:06	2007-05-25
125558	SB2 @ 5'	soil	2007-05-22	08:07	2007-05-25
125559	SB2 @ 30'	soil	2007-05-22	09:04	2007-05-25
125560	SB2 @ 50'	soil	2007-05-22	10:45	2007-05-25
125561	SB3 @ 1'	soil	2007-05-22	11:06	2007-05-25
125562	SB3 @ 3'	soil	2007-05-22	11:07	2007-05-25
125563	SB3 @ 5'	soil	2007-05-22	11:08	2007-05-25
125564	SB3 @ 25'	soil	2007-05-22	11:40	2007-05-25
125565	SB3 @ 39'	soil	2007-05-22	12:14	2007-05-25
125566	SB4 @ 1'	soil	2007-05-22	13:20	2007-05-25
125567	SB4 @ 3'	soil	2007-05-22	13:21	2007-05-25
125568	SB4 @ 5'	soil	2007-05-22	13:22	2007-05-25
125569	SB4 @ 20'	soil	2007-05-22	13:48	2007-05-25
125570	SB4 @ 39'	soil	2007-05-22	14:30	2007-05-25
125571	SB5 @ 1'	soil	2007-05-22	14:57	2007-05-25
125572	SB5 @ 3'	soil	2007-05-22	14:58	2007-05-25
125573	SB5 @ 5'	soil	2007-05-22	15:00	2007-05-25
125574	SB5 @ 20'	soil	2007-05-22	15:37	2007-05-25
125575	SB5 @ 35'	soil	2007-05-22	16:00	2007-05-25
125576	SB6 @ 1'	soil	2007-05-22	00:00	2007-05-25
125577	SB6 @ 3'	soil	2007-05-22	00:00	2007-05-25
125578	SB6 @ 5'	soil	2007-05-22	00:00	2007-05-25
125579	SB6 @ 15'	soil	2007-05-22	00:00	2007-05-25
125580	SB6 @ 35'	soil	2007-05-22	00:00	2007-05-25
125581	SB7 @ 1'	soil	2007-05-23	00:00	2007-05-25
125582	SB7 @ 3'	soil	2007-05-23	00:00	2007-05-25
125583	SB7 @ 5'	soil	2007-05-23	00:00	2007-05-25
125584	SB7 @ 20'	soil	2007-05-23	00:00	2007-05-25
125585	SB7 @ 39'	soil	2007-05-23	00:00	2007-05-25
125586	SB8 @ 1'	soil	2007-05-23	00:00	2007-05-25
125587	SB8 @ 3'	soil	2007-05-22	08:05	2007-05-25

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125588	SB8 @ 5'	soil	2007-05-23	00:00	2007-05-25
125589	SB8 @ 20'	soil	2007-05-23	00:00	2007-05-25
125590	SB8 @ 39'	soil	2007-05-23	00:00	2007-05-25

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 71 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project State M SWD were received by TraceAnalysis, Inc. on 2007-05-25 and assigned to work order 7052526. Samples for work order 7052526 were received intact at a temperature of 4 C.

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

Test	Method
BTEX	S 8021B
Chloride (IC)	E 300.0
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

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 7052526 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.

Analytical Report

Sample: 125556 - SB2 @ 1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37548	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[1]	<0.200	mg/Kg	20	0.0100
Toluene		<0.200	mg/Kg	20	0.0100
Ethylbenzene		2.56	mg/Kg	20	0.0100
Xylene		11.5	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.563	mg/Kg	20	1.00	56	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	20	1.00	124	48.7 - 146

Sample: 125556 - SB2 @ 1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38310	Date Analyzed:	2007-06-18	Analyzed By:	ER
Prep Batch:	33169	Sample Preparation:	2007-06-18	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2020	mg/Kg	100	1.00

Sample: 125556 - SB2 @ 1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		1430	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[2]	279	mg/Kg	1	150	186	62.5 - 164

Sample: 125556 - SB2 @ 1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37549	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

[1] Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.
[2] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		657	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.680	mg/Kg	20	1.00	68	33.2 - 160
4-Bromofluorobenzene (4-BFB)	[3]	2.59	mg/Kg	20	1.00	259	10 - 227

Sample: 125557 - SB2 @ 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		0.0382	mg/Kg	1	0.0100
Xylene		0.210	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.945	mg/Kg	1	1.00	94	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	1	1.00	94	48.7 - 146

Sample: 125557 - SB2 @ 3'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		402	mg/Kg	50	1.00

Sample: 125557 - SB2 @ 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		288	mg/Kg	1	50.0

[3]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		245	mg/Kg	1	150	163	62.5 - 164

Sample: 125557 - SB2 @ 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		45.4	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.922	mg/Kg	1	1.00	92	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.80	mg/Kg	1	1.00	180	10 - 227

Sample: 125558 - SB2 @ 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.974	mg/Kg	1	1.00	97	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.910	mg/Kg	1	1.00	91	48.7 - 146

Sample: 125558 - SB2 @ 5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		306	mg/Kg	50	1.00

Sample: 125558 - SB2 @ 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		227	mg/Kg	1	150	151	62.5 - 164

Sample: 125558 - SB2 @ 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	10 - 227

Sample: 125559 - SB2 @ 30'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.28	mg/Kg	1	1.00	128	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.19	mg/Kg	1	1.00	119	48.7 - 146

Sample: 125559 - SB2 @ 30'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	Result	RL Result	Units	Dilution	RL
Chloride		**2060**		mg/Kg	100	1.00

Sample: 125559 - SB2 @ 30'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		222	mg/Kg	1	150	148	62.5 - 164

Sample: 125559 - SB2 @ 30'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.35	mg/Kg	1	1.00	135	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.29	mg/Kg	1	1.00	129	10 - 227

Sample: 125560 - SB2 @ 50'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	Result	RL 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

continued ...

sample 125560 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.910	mg/Kg	1	1.00	91	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.841	mg/Kg	1	1.00	84	48.7 - 146

Sample: 125560 - SB2 @ 50'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		43.5	mg/Kg	5	1.00

Sample: 125560 - SB2 @ 50'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		223	mg/Kg	1	150	149	62.5 - 164

Sample: 125560 - SB2 @ 50'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.919	mg/Kg	1	1.00	92	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.913	mg/Kg	1	1.00	91	10 - 227

Sample: 125561 - SB3 @ 1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37548	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	[4]	<0.200	mg/Kg	20	0.0100
Toluene		<0.200	mg/Kg	20	0.0100
Ethylbenzene		2.28	mg/Kg	20	0.0100
Xylene		3.17	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.588	mg/Kg	20	1.00	59	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	20	1.00	103	48.7 - 146

Sample: 125561 - SB3 @ 1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		2720	mg/Kg	100	1.00

Sample: 125561 - SB3 @ 1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		2710	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[5]	360	mg/Kg	1	150	240	62.5 - 164

Sample: 125561 - SB3 @ 1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37549	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

continued ...

[4]Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.
[5]High surrogate recovery due to peak interference.

sample 125561 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
GRO		270	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.768	mg/Kg	20	1.00	77	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.38	mg/Kg	20	1.00	138	10 - 227

Sample: 125562 - SB3 @ 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	1	1.00	103	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.976	mg/Kg	1	1.00	98	48.7 - 146

Sample: 125562 - SB3 @ 3'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1270	mg/Kg	100	1.00

Sample: 125562 - SB3 @ 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

continued ...

sample 125562 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		235	mg/Kg	1	150	157	62.5 - 164

Sample: 125562 - SB3 @ 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.26	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	10 - 227

Sample: 125563 - SB3 @ 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	1	1.00	104	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.976	mg/Kg	1	1.00	98	48.7 - 146

Sample: 125563 - SB3 @ 5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1400	mg/Kg	100	1.00

Sample: 125563 - SB3 @ 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		233	mg/Kg	1	150	155	62.5 - 164

Sample: 125563 - SB3 @ 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1.11	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	10 - 227

Sample: 125564 - SB3 @ 25'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.22	mg/Kg	1	1.00	122	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.13	mg/Kg	1	1.00	113	48.7 - 146

Sample: 125564 - SB3 @ 25'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**2530**		mg/Kg	100	1.00

Sample: 125564 - SB3 @ 25'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		212	mg/Kg	1	150	141	62.5 - 164

Sample: 125564 - SB3 @ 25'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.28	mg/Kg	1	1.00	128	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	1.00	124	10 - 227

Sample: 125565 - SB3 @ 39'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	Result	RL	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

continued ...

sample 125565 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.15	mg/Kg	1	1.00	115	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	48.7 - 146

Sample: 125565 - SB3 @ 39'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38253	Date Analyzed:	2007-06-16	Analyzed By:	ER
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		328		mg/Kg	50	1.00

Sample: 125565 - SB3 @ 39'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		232	mg/Kg	1	150	155	62.5 - 164

Sample: 125565 - SB3 @ 39'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.20	mg/Kg	1	1.00	120	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	10 - 227

Sample: 125566 - SB4 @ 1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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		**0.0408**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.928	mg/Kg	1	1.00	93	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.946	mg/Kg	1	1.00	95	48.7 - 146

Sample: 125566 - SB4 @ 1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**120**	mg/Kg	50	1.00

Sample: 125566 - SB4 @ 1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		238	mg/Kg	1	150	159	62.5 - 164

Sample: 125566 - SB4 @ 1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

continued ...

sample 125566 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Parameter	Flag	RL Result	Units	Dilution	RL
GRO		16.4	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.810	mg/Kg	1	1.00	81	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.23	mg/Kg	1	1.00	123	10 - 227

Sample: 125567 - SB4 @ 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.07	mg/Kg	1	1.00	107	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.980	mg/Kg	1	1.00	98	48.7 - 146

Sample: 125567 - SB4 @ 3'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		117	mg/Kg	5	1.00

Sample: 125567 - SB4 @ 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

continued ...

sample 125567 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		240	mg/Kg	1	150	160	62.5 - 164

Sample: 125567 - SB4 @ 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	1.00	113	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	10 - 227

Sample: 125568 - SB4 @ 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.07	mg/Kg	1	1.00	107	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.980	mg/Kg	1	1.00	98	48.7 - 146

Sample: 125568 - SB4 @ 5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		238	mg/Kg	50	1.00

Sample: 125568 - SB4 @ 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		232	mg/Kg	1	150	155	62.5 - 164

Sample: 125568 - SB4 @ 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.15	mg/Kg	1	1.00	115	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	10 - 227

Sample: 125569 - SB4 @ 20'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37541	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.18	mg/Kg	1	1.00	118	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.06	mg/Kg	1	1.00	106	48.7 - 146

Sample: 125569 - SB4 @ 20'

Analysis:	Chloride (1C)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		3310		mg/Kg	100	1.00

Sample: 125569 - SB4 @ 20'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37553	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[6]	248	mg/Kg	1	150	165	62.5 - 164

Sample: 125569 - SB4 @ 20'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37543	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32545	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.26	mg/Kg	1	1.00	126	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	10 - 227

Sample: 125570 - SB4 @ 39'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	Result	RL	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

continued ...

[6]High surrogate recovery. Sample non-detect, result bias high.

sample 125570 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.964	mg/Kg	1	1.00	96	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.892	mg/Kg	1	1.00	89	48.7 - 146

Sample: 125570 - SB4 @ 39'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		144	mg/Kg	5	1.00

Sample: 125570 - SB4 @ 39'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		232	mg/Kg	1	150	155	62.5 - 164

Sample: 125570 - SB4 @ 39'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.972	mg/Kg	1	1.00	97	10 - 227

Sample: 125571 - SB5 @ 1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.949	mg/Kg	1	1.00	95	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.866	mg/Kg	1	1.00	87	48.7 - 146

Sample: 125571 - SB5 @ 1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		1210	mg/Kg	100	1.00

Sample: 125571 - SB5 @ 1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		231	mg/Kg	1	150	154	62.5 - 164

Sample: 125571 - SB5 @ 1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

continued ...

sample 125571 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.944	mg/Kg	1	1.00	94	10 - 227

Sample: 125572 - SB5 @ 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	1	1.00	111	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	1	1.00	103	48.7 - 146

Sample: 125572 - SB5 @ 3'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		882	mg/Kg	100	1.00

Sample: 125572 - SB5 @ 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

continued ...

sample 125572 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		238	mg/Kg	1	150	159	62.5 - 164

Sample: 125572 - SB5 @ 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.19	mg/Kg	1	1.00	119	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	10 - 227

Sample: 125573 - SB5 @ 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.940	mg/Kg	1	1.00	94	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.862	mg/Kg	1	1.00	86	48.7 - 146

Sample: 125573 - SB5 @ 5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**1490**	mg/Kg	100	1.00

Sample: 125573 - SB5 @ 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		233	mg/Kg	1	150	155	62.5 - 164

Sample: 125573 - SB5 @ 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.937	mg/Kg	1	1.00	94	10 - 227

Sample: 125574 - SB5 @ 20'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.869	mg/Kg	1	1.00	87	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.796	mg/Kg	1	1.00	80	48.7 - 146

Sample: 125574 - SB5 @ 20'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		2080		mg/Kg	100	1.00

Sample: 125574 - SB5 @ 20'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[7]	273	mg/Kg	1	150	182	62.5 - 164

Sample: 125574 - SB5 @ 20'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.928	mg/Kg	1	1.00	93	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.865	mg/Kg	1	1.00	86	10 - 227

Sample: 125575 - SB5 @ 35'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	Result	RL	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

continued ...

[7]High surrogate recovery. Sample non-detect, result bias high.

sample 125575 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.924	mg/Kg	1	1.00	92	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.841	mg/Kg	1	1.00	84	48.7 - 146

Sample: 125575 - SB5 @ 35'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38254	Date Analyzed:	2007-06-17	Analyzed By:	ER
Prep Batch:	33119	Sample Preparation:	2007-06-16	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		49.1	mg/Kg	5	1.00

Sample: 125575 - SB5 @ 35'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[8]	257	mg/Kg	1	150	171	62.5 - 164

Sample: 125575 - SB5 @ 35'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.982	mg/Kg	1	1.00	98	33.2 - 160

continued ...

[8]High surrogate recovery. Sample non-detect, result bias high.

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.920	mg/Kg	1	1.00	92	10 - 227

Sample: 125576 - SB6 @ 1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.889	mg/Kg	1	1.00	89	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.810	mg/Kg	1	1.00	81	48.7 - 146

Sample: 125576 - SB6 @ 1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38310	Date Analyzed:	2007-06-18	Analyzed By:	ER
Prep Batch:	33169	Sample Preparation:	2007-06-18	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		414	mg/Kg	50	1.00

Sample: 125576 - SB6 @ 1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		210	mg/Kg	1	150	140	62.5 - 164

Sample: 125576 - SB6 @ 1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.946	mg/Kg	1	1.00	95	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.924	mg/Kg	1	1.00	92	10 - 227

Sample: 125577 - SB6 @ 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.978	mg/Kg	1	1.00	98	48.7 - 146

Sample: 125577 - SB6 @ 3'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38312	Date Analyzed:	2007-06-19	Analyzed By:	ER
Prep Batch:	33171	Sample Preparation:	2007-06-18	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		243	mg/Kg	50	1.00

Sample: 125577 - SB6 @ 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[9]	251	mg/Kg	1	150	167	62.5 - 164

Sample: 125577 - SB6 @ 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.18	mg/Kg	1	1.00	118	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	10 - 227

Sample: 125578 - SB6 @ 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37548	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.988	mg/Kg	1	1.00	99	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.998	mg/Kg	1	1.00	100	48.7 - 146

Sample: 125578 - SB6 @ 5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38312	Date Analyzed:	2007-06-19	Analyzed By:	ER
Prep Batch:	33171	Sample Preparation:	2007-06-18	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		705	mg/Kg	50	1.00

[9]High surrogate recovery. Sample non-detect, result bias high.

Sample: 125578 - SB6 @ 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		1300		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[10]	524	mg/Kg	1	150	349	62.5 - 164

Sample: 125578 - SB6 @ 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37549	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.08	mg/Kg	1	1.00	108	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	10 - 227

Sample: 125579 - SB6 @ 15'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	Result	RL	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)		0.900	mg/Kg	1	1.00	90	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.805	mg/Kg	1	1.00	80	48.7 - 146

[10]High surrogate recovery due to peak interference.

Sample: 125579 - SB6 @ 15'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38312	Date Analyzed:	2007-06-19	Analyzed By:	ER
Prep Batch:	33171	Sample Preparation:	2007-06-18	Prepared By:	ER

Parameter	Flag	Result	RL Units	Dilution	RL
Chloride		**1460**	mg/Kg	100	1.00

Sample: 125579 - SB6 @ 15'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		223	mg/Kg	1	150	149	62.5 - 164

Sample: 125579 - SB6 @ 15'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.972	mg/Kg	1	1.00	97	33.2 - 160
4-Bromofluorobenzene (4-BFB)		0.869	mg/Kg	1	1.00	87	10 - 227

Sample: 125580 - SB6 @ 35'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	Result	RL 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

continued ...

sample 125580 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	1	1.00	111	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	48.7 - 146

Sample: 125580 - SB6 @ 35'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38312	Date Analyzed:	2007-06-19	Analyzed By:	ER
Prep Batch:	33171	Sample Preparation:	2007-06-18	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		461	mg/Kg	50	1.00

Sample: 125580 - SB6 @ 35'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		228	mg/Kg	1	150	152	62.5 - 164

Sample: 125580 - SB6 @ 35'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.20	mg/Kg	1	1.00	120	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	10 - 227

Sample: 125581 - SB7 @ 1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37618	Date Analyzed:	2007-05-29	Analyzed By:	KB
Prep Batch:	32598	Sample Preparation:	2007-05-29	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0717	mg/Kg	1	0.0100
Toluene		0.0699	mg/Kg	1	0.0100
Ethylbenzene		0.157	mg/Kg	1	0.0100
Xylene		0.244	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.664	mg/Kg	1	1.00	66	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.856	mg/Kg	1	1.00	86	48.7 - 146

Sample: 125581 - SB7 @ 1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38352	Date Analyzed:	2007-06-20	Analyzed By:	ER
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		42.8	mg/Kg	5	1.00

Sample: 125581 - SB7 @ 1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		814	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[11]	336	mg/Kg	1	150	224	62.5 - 164

Sample: 125581 - SB7 @ 1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37619	Date Analyzed:	2007-05-29	Analyzed By:	KB
Prep Batch:	32598	Sample Preparation:	2007-05-29	Prepared By:	KB

continued ...

[11] High surrogate recovery due to peak interference.

sample 125581 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**21.1**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.756	mg/Kg	1	1.00	76	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.16	mg/Kg	1	1.00	116	10 - 227

Sample: 125582 - SB7 @ 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37618	Date Analyzed:	2007-05-29	Analyzed By:	KB
Prep Batch:	32598	Sample Preparation:	2007-05-29	Prepared By:	KB

Parameter	Flag	RL 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		**0.478**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.722	mg/Kg	1	1.00	72	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	48.7 - 146

Sample: 125582 - SB7 @ 3'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38352	Date Analyzed:	2007-06-20	Analyzed By:	ER
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**41.6**	mg/Kg	5	1.00

Sample: 125582 - SB7 @ 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

continued ...

sample 125582 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		4380	mg/Kg	10	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[12]	1410	mg/Kg	10	150	940	62.5 - 164

Sample: 125582 - SB7 @ 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37549	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		73.9	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.549	mg/Kg	20	1.00	55	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.46	mg/Kg	20	1.00	146	10 - 227

Sample: 125583 - SB7 @ 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37548	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		1.24	mg/Kg	20	0.0100
Toluene		<0.200	mg/Kg	20	0.0100
Ethylbenzene		0.948	mg/Kg	20	0.0100
Xylene		4.05	mg/Kg	20	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[13]	0.521	mg/Kg	20	1.00	52	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.600	mg/Kg	20	1.00	60	48.7 - 146

Sample: 125583 - SB7 @ 5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38312	Date Analyzed:	2007-06-19	Analyzed By:	ER
Prep Batch:	33171	Sample Preparation:	2007-06-18	Prepared By:	ER

[12]High surrogate recovery due to peak interference.
[13]Surrogate out due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		210	mg/Kg	50	1.00

Sample: 125583 - SB7 @ 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		16700	mg/Kg	10	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[14]	2490	mg/Kg	10	150	1660	62.5 - 164

Sample: 125583 - SB7 @ 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37549	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		377	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.696	mg/Kg	20	1.00	70	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.79	mg/Kg	20	1.00	179	10 - 227

Sample: 125584 - SB7 @ 20'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37548	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		6.46	mg/Kg	20	0.0100
Toluene		0.770	mg/Kg	20	0.0100
Ethylbenzene		21.4	mg/Kg	20	0.0100
Xylene		40.0	mg/Kg	20	0.0100

[14]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[15]	0.456	mg/Kg	20	1.00	46	52.1 - 131
4-Bromofluorobenzene (4-BFB)	[16]	3.49	mg/Kg	20	1.00	349	48.7 - 146

Sample: 125584 - SB7 @ 20'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38312	Date Analyzed:	2007-06-19	Analyzed By:	ER
Prep Batch:	33171	Sample Preparation:	2007-06-18	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		19.0	mg/Kg	5	1.00

Sample: 125584 - SB7 @ 20'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37678	Date Analyzed:	2007-05-30	Analyzed By:	TG
Prep Batch:	32609	Sample Preparation:	2007-05-29	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		6620	mg/Kg	10	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[17]	1020	mg/Kg	10	150	680	62.5 - 164

Sample: 125584 - SB7 @ 20'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37549	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32548	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		1010	mg/Kg	20	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.452	mg/Kg	20	1.00	45	33.2 - 160
4-Bromofluorobenzene (4-BFB)	[18]	9.54	mg/Kg	20	1.00	954	10 - 227

Sample: 125585 - SB7 @ 39'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37618	Date Analyzed:	2007-05-29	Analyzed By:	KB
Prep Batch:	32598	Sample Preparation:	2007-05-29	Prepared By:	KB

[15] Surrogate out due to peak interference.
[16] High surrogate recovery due to peak interference.
[17] High surrogate recovery due to peak interference.
[18] High surrogate recovery due to peak interference.

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		73.8	mg/Kg	200	0.0100
Toluene		46.5	mg/Kg	200	0.0100
Ethylbenzene		170	mg/Kg	200	0.0100
Xylene		269	mg/Kg	200	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.588	mg/Kg	200	1.00	59	52.1 - 131
4-Bromofluorobenzene (4-BFB)	[19]	20.8	mg/Kg	200	1.00	2080	48.7 - 146

Sample: 125585 - SB7 @ 39'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38352	Date Analyzed:	2007-06-20	Analyzed By:	ER
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		24.9	mg/Kg	5	1.00

Sample: 125585 - SB7 @ 39'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37554	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		21600	mg/Kg	10	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[20]	1520	mg/Kg	10	150	1013	62.5 - 164

Sample: 125585 - SB7 @ 39'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37619	Date Analyzed:	2007-05-29	Analyzed By:	KB
Prep Batch:	32598	Sample Preparation:	2007-05-29	Prepared By:	KB

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		8800	mg/Kg	200	1.00

[19]High surrogate recovery due to peak interference.
[20]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[21]	8.31	mg/Kg	200	1.00	831	33.2 - 160
4-Bromofluorobenzene (4-BFB)	[22]	108	mg/Kg	200	1.00	10800	10 - 227

Sample: 125586 - SB8 @ 1'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.13	mg/Kg	1	1.00	113	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	48.7 - 146

Sample: 125586 - SB8 @ 1'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38312	Date Analyzed:	2007-06-19	Analyzed By:	ER
Prep Batch:	33171	Sample Preparation:	2007-06-18	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		10800	mg/Kg	1000	1.00

Sample: 125586 - SB8 @ 1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37555	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		227	mg/Kg	1	150	151	62.5 - 164

[21] High surrogate recovery due to peak interference.
[22] High surrogate recovery due to peak interference.

Sample: 125586 - SB8 @ 1'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.65**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.21	mg/Kg	1	1.00	121	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.25	mg/Kg	1	1.00	125	10 - 227

Sample: 125587 - SB8 @ 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	1	1.00	104	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.959	mg/Kg	1	1.00	96	48.7 - 146

Sample: 125587 - SB8 @ 3'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38352	Date Analyzed:	2007-06-20	Analyzed By:	ER
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**290**	mg/Kg	50	1.00

Sample: 125587 - SB8 @ 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37555	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		227	mg/Kg	1	150	151	62.5 - 164

Sample: 125587 - SB8 @ 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.12	mg/Kg	1	1.00	112	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	10 - 227

Sample: 125588 - SB8 @ 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.07	mg/Kg	1	1.00	107	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.973	mg/Kg	1	1.00	97	48.7 - 146

Sample: 125588 - SB8 @ 5'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38352	Date Analyzed:	2007-06-20	Analyzed By:	ER
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**303**	mg/Kg	50	1.00

Sample: 125588 - SB8 @ 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37555	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		226	mg/Kg	1	150	151	62.5 - 164

Sample: 125588 - SB8 @ 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.16	mg/Kg	1	1.00	116	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	10 - 227

Sample: 125589 - SB8 @ 20'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	RL 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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[23]	1.33	mg/Kg	1	1.00	133	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.22	mg/Kg	1	1.00	122	48.7 - 146

[23]High surrogate recovery. Sample non-detect, result bias high.

Sample: 125589 - SB8 @ 20'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38352	Date Analyzed:	2007-06-20	Analyzed By:	ER
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**2190**		mg/Kg	100	1.00

Sample: 125589 - SB8 @ 20'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37555	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		230	mg/Kg	1	150	153	62.5 - 164

Sample: 125589 - SB8 @ 20'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.20	mg/Kg	1	1.00	120	33.2 - 160
4-Bromofluorobenzene (4-BFB)		1.24	mg/Kg	1	1.00	124	10 - 227

Sample: 125590 - SB8 @ 39'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	37546	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

Parameter	Flag	Result	RL	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

continued ...

sample 125590 continued ...

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.14	mg/Kg	1	1.00	114	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	48.7 - 146

Sample: 125590 - SB8 @ 39'

Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	38352	Date Analyzed:	2007-06-20	Analyzed By:	ER
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		263	mg/Kg	50	1.00

Sample: 125590 - SB8 @ 39'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	37555	Date Analyzed:	2007-05-26	Analyzed By:	TG
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	TG

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[24]	279	mg/Kg	1	150	186	62.5 - 164

Sample: 125590 - SB8 @ 39'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	37547	Date Analyzed:	2007-05-25	Analyzed By:	MT
Prep Batch:	32547	Sample Preparation:	2007-05-25	Prepared By:	MT

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.23	mg/Kg	1	1.00	123	33.2 - 160

continued ...

[24]High surrogate recovery. Sample non-detect, result bias high.

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	10 - 227

Method Blank (1) QC Batch: 37541

QC Batch: 37541 Date Analyzed: 2007-05-25 Analyzed By: MT
Prep Batch: 32545 QC Preparation: 2007-05-25 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.01
Toluene		<0.00372	mg/Kg	0.01
Ethylbenzene		<0.00206	mg/Kg	0.01
Xylene		<0.00259	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	73.2 - 113
4-Bromofluorobenzene (4-BFB)		0.724	mg/Kg	1	1.00	72	54 - 102

Method Blank (1) QC Batch: 37543

QC Batch: 37543 Date Analyzed: 2007-05-25 Analyzed By: MT
Prep Batch: 32545 QC Preparation: 2007-05-25 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.09	mg/Kg	1	1.00	109	73.2 - 125
4-Bromofluorobenzene (4-BFB)		0.787	mg/Kg	1	1.00	79	51.9 - 110

Method Blank (1) QC Batch: 37546

QC Batch: 37546 Date Analyzed: 2007-05-25 Analyzed By: MT
Prep Batch: 32547 QC Preparation: 2007-05-25 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.01
Toluene		<0.00372	mg/Kg	0.01
Ethylbenzene		<0.00206	mg/Kg	0.01
Xylene		<0.00259	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.916	mg/Kg	1	1.00	92	73.2 - 113
4-Bromofluorobenzene (4-BFB)		0.675	mg/Kg	1	1.00	68	54 - 102

Method Blank (1) QC Batch: 37547

QC Batch: 37547 Date Analyzed: 2007-05-25 Analyzed By: MT
Prep Batch: 32547 QC Preparation: 2007-05-25 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	73.2 - 125
4-Bromofluorobenzene (4-BFB)		0.736	mg/Kg	1	1.00	74	51.9 - 110

Method Blank (1) QC Batch: 37548

QC Batch: 37548 Date Analyzed: 2007-05-25 Analyzed By: MT
Prep Batch: 32548 QC Preparation: 2007-05-25 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.01
Toluene		<0.00372	mg/Kg	0.01
Ethylbenzene		<0.00206	mg/Kg	0.01
Xylene		<0.00259	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.854	mg/Kg	1	1.00	85	73.2 - 113
4-Bromofluorobenzene (4-BFB)		0.653	mg/Kg	1	1.00	65	54 - 102

Method Blank (1) QC Batch: 37549

QC Batch: 37549 Date Analyzed: 2007-05-25 Analyzed By: MT
Prep Batch: 32548 QC Preparation: 2007-05-25 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.957	mg/Kg	1	1.00	96	73.2 - 125
4-Bromofluorobenzene (4-BFB)		0.727	mg/Kg	1	1.00	73	51.9 - 110

Method Blank (1) QC Batch: 37553

QC Batch: 37553 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		228	mg/Kg	1	150	152	62.5 - 164

Method Blank (1) QC Batch: 37554

QC Batch: 37554 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		243	mg/Kg	1	150	162	62.5 - 164

Method Blank (1) QC Batch: 37555

QC Batch: 37555 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		235	mg/Kg	1	150	157	62.5 - 164

Method Blank (1) QC Batch: 37618

QC Batch: 37618 | Date Analyzed: 2007-05-29 | Analyzed By: KB
Prep Batch: 32598 | QC Preparation: 2007-05-29 | Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00333	mg/Kg	0.01
Toluene		<0.00372	mg/Kg	0.01
Ethylbenzene		<0.00206	mg/Kg	0.01
Xylene		<0.00259	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.882	mg/Kg	1	1.00	88	73.2 - 113
4-Bromofluorobenzene (4-BFB)		0.600	mg/Kg	1	1.00	60	54 - 102

Method Blank (1) QC Batch: 37619

QC Batch: 37619 Date Analyzed: 2007-05-29 Analyzed By: KB
Prep Batch: 32598 QC Preparation: 2007-05-29 Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
GRO		<0.459	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	73.2 - 125
4-Bromofluorobenzene (4-BFB)		0.689	mg/Kg	1	1.00	69	51.9 - 110

Method Blank (1) QC Batch: 37678

QC Batch: 37678 Date Analyzed: 2007-05-30 Analyzed By: TG
Prep Batch: 32609 QC Preparation: 2007-05-29 Prepared By: TG

Parameter	Flag	MDL Result	Units	RL
DRO		<10.7	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		222	mg/Kg	1	150	148	62.5 - 164

Method Blank (1) QC Batch: 38253

QC Batch: 38253 Date Analyzed: 2007-06-16 Analyzed By: ER
Prep Batch: 33118 QC Preparation: 2007-06-16 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Method Blank (1) QC Batch: 38254

QC Batch: 38254 Date Analyzed: 2007-06-17 Analyzed By: ER
Prep Batch: 33119 QC Preparation: 2007-06-16 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Method Blank (1) QC Batch: 38310

QC Batch: 38310 Date Analyzed: 2007-06-18 Analyzed By: ER
Prep Batch: 33169 QC Preparation: 2007-06-18 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Method Blank (1) QC Batch: 38312

QC Batch: 38312 Date Analyzed: 2007-06-19 Analyzed By: ER
Prep Batch: 33171 QC Preparation: 2007-06-18 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Method Blank (1) QC Batch: 38352

QC Batch: 38352 Date Analyzed: 2007-06-20 Analyzed By: ER
Prep Batch: 33202 QC Preparation: 2007-06-19 Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.140	mg/Kg	1

Laboratory Control Spike (LCS-1)

QC Batch: 37541 Date Analyzed: 2007-05-25 Analyzed By: MT
Prep Batch: 32545 QC Preparation: 2007-05-25 Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.01	mg/Kg	1	1.00	<0.00333	101	76.3 - 117
Toluene	1.00	mg/Kg	1	1.00	<0.00372	100	77.3 - 114
Ethylbenzene	0.968	mg/Kg	1	1.00	<0.00206	97	75.4 - 115
Xylene	2.88	mg/Kg	1	3.00	<0.00259	96	73.2 - 112

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.01	mg/Kg	1	1.00	<0.00333	101	76.3 - 117	0	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Toluene	0.999	mg/Kg	1	1.00	<0.00372	100	77.3 - 114	0	20
Ethylbenzene	0.968	mg/Kg	1	1.00	<0.00206	97	75.4 - 115	0	20
Xylene	2.89	mg/Kg	1	3.00	<0.00259	96	73.2 - 112	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.930	0.953	mg/Kg	1	1.00	93	95	74.5 - 113
4-Bromofluorobenzene (4-BFB)	0.882	0.903	mg/Kg	1	1.00	88	90	68.3 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 37543 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32545 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.92	mg/Kg	1	10.0	<0.459	89	79.6 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.86	mg/Kg	1	10.0	<0.459	99	79.6 - 113	10	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.966	0.947	mg/Kg	1	1.00	97	95	77.1 - 117
4-Bromofluorobenzene (4-BFB)	0.890	0.889	mg/Kg	1	1.00	89	89	78.1 - 118

Laboratory Control Spike (LCS-1)

QC Batch: 37546 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32547 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.01	mg/Kg	1	1.00	<0.00333	101	76.3 - 117
Toluene	0.987	mg/Kg	1	1.00	<0.00372	99	77.3 - 114
Ethylbenzene	0.948	mg/Kg	1	1.00	<0.00206	95	75.4 - 115
Xylene	2.82	mg/Kg	1	3.00	<0.00259	94	73.2 - 112

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.00	mg/Kg	1	1.00	<0.00333	100	76.3 - 117	1	20
Toluene	0.988	mg/Kg	1	1.00	<0.00372	99	77.3 - 114	0	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	0.953	mg/Kg	1	1.00	<0.00206	95	75.4 - 115	0	20
Xylene	2.84	mg/Kg	1	3.00	<0.00259	95	73.2 - 112	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.843	0.917	mg/Kg	1	1.00	84	92	74.5 - 113
4-Bromofluorobenzene (4-BFB)	0.825	0.884	mg/Kg	1	1.00	82	88	68.3 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 37547 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32547 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.66	mg/Kg	1	10.0	<0.459	87	79.6 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.60	mg/Kg	1	10.0	<0.459	96	79.6 - 113	10	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.900	0.984	mg/Kg	1	1.00	90	98	77.1 - 117
4-Bromofluorobenzene (4-BFB)	0.833	0.904	mg/Kg	1	1.00	83	90	78.1 - 118

Laboratory Control Spike (LCS-1)

QC Batch: 37548 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32548 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.977	mg/Kg	1	1.00	<0.00333	98	76.3 - 117
Toluene	0.949	mg/Kg	1	1.00	<0.00372	95	77.3 - 114
Ethylbenzene	0.904	mg/Kg	1	1.00	<0.00206	90	75.4 - 115
Xylene	2.71	mg/Kg	1	3.00	<0.00259	90	73.2 - 112

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.942	mg/Kg	1	1.00	<0.00333	94	76.3 - 117	4	20
Toluene	0.917	mg/Kg	1	1.00	<0.00372	92	77.3 - 114	3	20
Ethylbenzene	0.875	mg/Kg	1	1.00	<0.00206	88	75.4 - 115	3	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Xylene	2.62	mg/Kg	1	3.00	<0.00259	87	73.2 - 112	3	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.844	0.858	mg/Kg	1	1.00	84	86	74.5 - 113
4-Bromofluorobenzene (4-BFB)	0.817	0.821	mg/Kg	1	1.00	82	82	68.3 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 37549 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32548 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.95	mg/Kg	1	10.0	<0.459	90	79.6 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.39	mg/Kg	1	10.0	<0.459	94	79.6 - 113	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.937	0.957	mg/Kg	1	1.00	94	96	77.1 - 117
4-Bromofluorobenzene (4-BFB)	0.893	0.902	mg/Kg	1	1.00	89	90	78.1 - 118

Laboratory Control Spike (LCS-1)

QC Batch: 37553 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	220	mg/Kg	1	250	<10.7	88	64.1 - 124

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	218	mg/Kg	1	250	<10.7	87	64.1 - 124	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	228	228	mg/Kg	1	150	152	152	62.5 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 37554 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	229	mg/Kg	1	250	<10.7	92	64.1 - 124

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	219	mg/Kg	1	250	<10.7	88	64.1 - 124	4	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	233	231	mg/Kg	1	150	155	154	62.5 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 37555 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	222	mg/Kg	1	250	<10.7	89	64.1 - 124

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	217	mg/Kg	1	250	<10.7	87	64.1 - 124	2	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	240	234	mg/Kg	1	150	160	156	62.5 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 37618 | Date Analyzed: 2007-05-29 | Analyzed By: KB
Prep Batch: 32598 | QC Preparation: 2007-05-29 | Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.925	mg/Kg	1	1.00	<0.00333	92	76.3 - 117
Toluene	0.905	mg/Kg	1	1.00	<0.00372	90	77.3 - 114
Ethylbenzene	0.862	mg/Kg	1	1.00	<0.00206	86	75.4 - 115
Xylene	2.57	mg/Kg	1	3.00	<0.00259	86	73.2 - 112

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.972	mg/Kg	1	1.00	<0.00333	97	76.3 - 117	5	20
Toluene	0.950	mg/Kg	1	1.00	<0.00372	95	77.3 - 114	5	20
Ethylbenzene	0.907	mg/Kg	1	1.00	<0.00206	91	75.4 - 115	5	20
Xylene	2.70	mg/Kg	1	3.00	<0.00259	90	73.2 - 112	5	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.856	0.927	mg/Kg	1	1.00	86	93	74.5 - 113
4-Bromofluorobenzene (4-BFB)	0.762	0.822	mg/Kg	1	1.00	76	82	68.3 - 110

Laboratory Control Spike (LCS-1)

QC Batch: 37619 | Date Analyzed: 2007-05-29 | Analyzed By: KB
Prep Batch: 32598 | QC Preparation: 2007-05-29 | Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.16	mg/Kg	1	10.0	<0.459	92	79.6 - 113

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.12	mg/Kg	1	10.0	<0.459	91	79.6 - 113	0	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.985	0.940	mg/Kg	1	1.00	98	94	77.1 - 117
4-Bromofluorobenzene (4-BFB)	0.870	0.819	mg/Kg	1	1.00	87	82	78.1 - 118

Laboratory Control Spike (LCS-1)

QC Batch: 37678 | Date Analyzed: 2007-05-30 | Analyzed By: TG
Prep Batch: 32609 | QC Preparation: 2007-05-29 | Prepared By: TG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	257	mg/Kg	1	250	<10.7	103	64.1 - 124

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	224	mg/Kg	1	250	<10.7	90	64.1 - 124	14	20

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

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	211	201	mg/Kg	1	150	141	134	62.5 - 164

Laboratory Control Spike (LCS-1)

QC Batch: 38253 | Date Analyzed: 2007-06-16 | Analyzed By: ER
Prep Batch: 33118 | QC Preparation: 2007-06-16 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.3	mg/Kg	1	12.5	<0.140	98	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.6	mg/Kg	1	12.5	<0.140	101	90 - 110	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: 38254 | Date Analyzed: 2007-06-17 | Analyzed By: ER
Prep Batch: 33119 | QC Preparation: 2007-06-16 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.2	mg/Kg	1	12.5	<0.140	98	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.6	mg/Kg	1	12.5	<0.140	101	90 - 110	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: 38310 | Date Analyzed: 2007-06-18 | Analyzed By: ER
Prep Batch: 33169 | QC Preparation: 2007-06-18 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.9	mg/Kg	1	12.5	<0.140	103	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	23.7	mg/Kg	1	12.5	<0.140	95	90 - 110	59	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: 38312 | Date Analyzed: 2007-06-19 | Analyzed By: ER
Prep Batch: 33171 | QC Preparation: 2007-06-18 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	24.4	mg/Kg	1	25.0	<0.140	98	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	24.3	mg/Kg	1	25.0	<0.140	97	90 - 110	0	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: 38352 | Date Analyzed: 2007-06-20 | Analyzed By: ER
Prep Batch: 33202 | QC Preparation: 2007-06-19 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.3	mg/Kg	1	12.5	<0.140	98	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	23.3	mg/Kg	1	12.5	<0.140	93	90 - 110	62	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: 125541

QC Batch: 37541 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32545 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.768	mg/Kg	1	1.00	<0.00333	77	39.6 - 141
Toluene	0.798	mg/Kg	1	1.00	<0.00372	80	45.4 - 138
Ethylbenzene	0.840	mg/Kg	1	1.00	<0.00206	84	48 - 141
Xylene	2.53	mg/Kg	1	3.00	<0.00259	84	45.3 - 142

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.772	mg/Kg	1	1.00	<0.00333	77	39.6 - 141	0	20
Toluene	0.801	mg/Kg	1	1.00	<0.00372	80	45.4 - 138	0	20
Ethylbenzene	0.845	mg/Kg	1	1.00	<0.00206	84	48 - 141	1	20
Xylene	2.54	mg/Kg	1	3.00	<0.00259	85	45.3 - 142	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.942	0.922	mg/Kg	1	1	94	92	51.5 - 138
4-Bromofluorobenzene (4-BFB)	0.925	0.902	mg/Kg	1	1	92	90	52.2 - 139

Matrix Spike (MS-1) Spiked Sample: 125541

QC Batch: 37543 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32545 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.98	mg/Kg	1	10.0	<0.459	80	40.7 - 157

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.63	mg/Kg	1	10.0	<0.459	76	40.7 - 157	4	19.6

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.845	0.730	mg/Kg	1	1	84	73	34.9 - 155
4-Bromofluorobenzene (4-BFB)	0.941	0.832	mg/Kg	1	1	94	83	58.5 - 153

Matrix Spike (MS-1) Spiked Sample: 125560

QC Batch: 37546 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32547 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.726	mg/Kg	1	1.00	<0.00333	73	39.6 - 141
Toluene	0.760	mg/Kg	1	1.00	<0.00372	76	45.4 - 138
Ethylbenzene	0.788	mg/Kg	1	1.00	<0.00206	79	48 - 141
Xylene	2.37	mg/Kg	1	3.00	<0.00259	79	45.3 - 142

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.748	mg/Kg	1	1.00	<0.00333	75	39.6 - 141	3	20
Toluene	0.772	mg/Kg	1	1.00	<0.00372	77	45.4 - 138	2	20

continued ...

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	0.814	mg/Kg	1	1.00	<0.00206	81	48 - 141	3	20
Xylene	2.44	mg/Kg	1	3.00	<0.00259	81	45.3 - 142	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.813	0.936	mg/Kg	1	1	81	94	51.5 - 138
4-Bromofluorobenzene (4-BFB)	0.790	0.911	mg/Kg	1	1	79	91	52.2 - 139

Matrix Spike (MS-1) Spiked Sample: 125560

QC Batch: 37547 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32547 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.59	mg/Kg	1	10.0	<0.459	76	40.7 - 157

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.51	mg/Kg	1	10.0	<0.459	85	40.7 - 157	11	19.6

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.806	0.898	mg/Kg	1	1	81	90	34.9 - 155
4-Bromofluorobenzene (4-BFB)	0.884	0.991	mg/Kg	1	1	88	99	58.5 - 153

Matrix Spike (MS-1) Spiked Sample: 125578

QC Batch: 37548 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32548 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.906	mg/Kg	1	1.00	<0.00333	91	39.6 - 141
Toluene	0.928	mg/Kg	1	1.00	<0.00372	93	45.4 - 138
Ethylbenzene	0.924	mg/Kg	1	1.00	<0.00206	92	48 - 141
Xylene	2.77	mg/Kg	1	3.00	<0.00259	92	45.3 - 142

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.878	mg/Kg	1	1.00	<0.00333	88	39.6 - 141	3	20
Toluene	0.892	mg/Kg	1	1.00	<0.00372	89	45.4 - 138	4	20
Ethylbenzene	0.895	mg/Kg	1	1.00	<0.00206	90	48 - 141	3	20

continued ...

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Xylene	2.68	mg/Kg	1	3.00	<0.00259	89	45.3 - 142	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.11	1.02	mg/Kg	1	1	111	102	51.5 - 138
4-Bromofluorobenzene (4-BFB)	1.04	0.964	mg/Kg	1	1	104	96	52.2 - 139

Matrix Spike (MS-1) Spiked Sample: 125578

QC Batch: 37549 | Date Analyzed: 2007-05-25 | Analyzed By: MT
Prep Batch: 32548 | QC Preparation: 2007-05-25 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.80	mg/Kg	1	10.0	<0.459	88	40.7 - 157

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.99	mg/Kg	1	10.0	<0.459	90	40.7 - 157	2	19.6

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.02	1.06	mg/Kg	1	1	102	106	34.9 - 155
4-Bromofluorobenzene (4-BFB)	1.13	1.12	mg/Kg	1	1	113	112	58.5 - 153

Matrix Spike (MS-1) Spiked Sample: 125555

QC Batch: 37553 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	200	mg/Kg	1	250	<10.7	80	47.5 - 127

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	205	mg/Kg	1	250	<10.7	82	47.5 - 127	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	220	217	mg/Kg	1	150	147	145	62.5 - 164

Matrix Spike (MS-1) Spiked Sample: 125571

QC Batch: 37554 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	224	mg/Kg	1	250	<10.7	90	47.5 - 127

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	228	mg/Kg	1	250	<10.7	91	47.5 - 127	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	227	228	mg/Kg	1	150	151	152	62.5 - 164

Matrix Spike (MS-1) Spiked Sample: 125587

QC Batch: 37555 | Date Analyzed: 2007-05-26 | Analyzed By: TG
Prep Batch: 32551 | QC Preparation: 2007-05-25 | Prepared By: TG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	206	mg/Kg	1	250	<10.7	82	47.5 - 127

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	207	mg/Kg	1	250	<10.7	83	47.5 - 127	0	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	229	227	mg/Kg	1	150	153	151	62.5 - 164

Matrix Spike (MS-1) Spiked Sample: 125620

QC Batch: 37618 | Date Analyzed: 2007-05-29 | Analyzed By: KB
Prep Batch: 32598 | QC Preparation: 2007-05-29 | Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.756	mg/Kg	1	1.00	<0.00333	76	39.6 - 141
Toluene	0.777	mg/Kg	1	1.00	<0.00372	78	45.4 - 138
Ethylbenzene	0.796	mg/Kg	1	1.00	<0.00206	80	48 - 141
Xylene	2.40	mg/Kg	1	3.00	<0.00259	80	45.3 - 142

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.774	mg/Kg	1	1.00	<0.00333	77	39.6 - 141	2	20
Toluene	0.798	mg/Kg	1	1.00	<0.00372	80	45.4 - 138	3	20
Ethylbenzene	0.817	mg/Kg	1	1.00	<0.00206	82	48 - 141	3	20
Xylene	2.47	mg/Kg	1	3.00	<0.00259	82	45.3 - 142	3	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.842	0.875	mg/Kg	1	1	84	88	51.5 - 138
4-Bromofluorobenzene (4-BFB)	0.799	0.846	mg/Kg	1	1	80	85	52.2 - 139

Matrix Spike (MS-1) Spiked Sample: 125616

QC Batch: 37619 | Date Analyzed: 2007-05-29 | Analyzed By: KB
Prep Batch: 32598 | QC Preparation: 2007-05-29 | Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	10.5	mg/Kg	1	10.0	<0.459	105	40.7 - 157

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	10.8	mg/Kg	1	10.0	<0.459	108	40.7 - 157	3	19.6

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.940	0.932	mg/Kg	1	1	94	93	34.9 - 155
4-Bromofluorobenzene (4-BFB)	1.08	1.08	mg/Kg	1	1	108	108	58.5 - 153

Matrix Spike (MS-1) Spiked Sample: 125591

QC Batch: 37678 | Date Analyzed: 2007-05-30 | Analyzed By: TG
Prep Batch: 32609 | QC Preparation: 2007-05-29 | Prepared By: TG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO [25]	502	mg/Kg	1	250	118	201	47.5 - 127

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [26]	470	mg/Kg	1	250	118	141	47.5 - 127	7	20

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

[25]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[26]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	221	228	mg/Kg	1	150	147	152	62.5 - 164

Matrix Spike (MS-1) Spiked Sample: 126875

QC Batch: 38253 | Date Analyzed: 2007-06-16 | Analyzed By: ER
Prep Batch: 33118 | QC Preparation: 2007-06-16 | Prepared By: ER

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[27]	35.0	mg/Kg	5	62.5	7.1162	45	75.6 - 117

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[28]	33.9	mg/Kg	5	62.5	7.1162	43	75.6 - 117	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: 125575

QC Batch: 38254 | Date Analyzed: 2007-06-17 | Analyzed By: ER
Prep Batch: 33119 | QC Preparation: 2007-06-16 | Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	103	mg/Kg	5	62.5	49.1275	86	75.6 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	107	mg/Kg	5	62.5	49.1275	92	75.6 - 117	4	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: 125576

QC Batch: 38310 | Date Analyzed: 2007-06-18 | Analyzed By: ER
Prep Batch: 33169 | QC Preparation: 2007-06-18 | Prepared By: ER

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[29]	990	mg/Kg	50	625	141.128	136	75.6 - 117

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

[27]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[28]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[29]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	915	mg/Kg	50	625	141.128	80	75.6 - 117	8	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: 125586

QC Batch: 38312 | Date Analyzed: 2007-06-19 | Analyzed By: ER
Prep Batch: 33171 | QC Preparation: 2007-06-18 | Prepared By: ER

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[30]	30400	mg/Kg	1000	12500	10840.3	156	75.6 - 117

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[31]	17300	mg/Kg	1000	12500	10840.3	52	75.6 - 117	55	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: 126122

QC Batch: 38352 | Date Analyzed: 2007-06-20 | Analyzed By: ER
Prep Batch: 33202 | QC Preparation: 2007-06-19 | Prepared By: ER

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[32]	46.2	mg/Kg	5	62.5	2.5371	70	75.6 - 117

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[33]	45.4	mg/Kg	5	62.5	2.5371	68	75.6 - 117	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: 37541 | Date Analyzed: 2007-05-25 | Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0996	100	85 - 115	2007-05-25
Toluene		mg/Kg	0.100	0.0980	98	85 - 115	2007-05-25
Ethylbenzene		mg/Kg	0.100	0.0979	98	85 - 115	2007-05-25

continued ...

[30]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[31]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[32]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[33]Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	221	228	mg/Kg	1	150	147	152	62.5 - 164

Matrix Spike (MS-1) Spiked Sample: 126875

QC Batch: 38253 | Date Analyzed: 2007-06-16 | Analyzed By: ER
Prep Batch: 33118 | QC Preparation: 2007-06-16 | Prepared By: ER

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[27]	35.0	mg/Kg	5	62.5	7.1162	45	75.6 - 117

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	[28]	33.9	mg/Kg	5	62.5	7.1162	43	75.6 - 117	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: 125575

QC Batch: 38254 | Date Analyzed: 2007-06-17 | Analyzed By: ER
Prep Batch: 33119 | QC Preparation: 2007-06-16 | Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	103	mg/Kg	5	62.5	49.1275	86	75.6 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	107	mg/Kg	5	62.5	49.1275	92	75.6 - 117	4	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: 125576

QC Batch: 38310 | Date Analyzed: 2007-06-18 | Analyzed By: ER
Prep Batch: 33169 | QC Preparation: 2007-06-18 | Prepared By: ER

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[29]	990	mg/Kg	50	625	141.128	136	75.6 - 117

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

[27] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[28] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[29] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

standard continued ...

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/Kg	0.300	0.293	98	85 - 115	2007-05-25

Standard (CCV-1)

QC Batch: 37541 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0984	98	85 - 115	2007-05-25
Toluene		mg/Kg	0.100	0.0970	97	85 - 115	2007-05-25
Ethylbenzene		mg/Kg	0.100	0.0944	94	85 - 115	2007-05-25
Xylene		mg/Kg	0.300	0.282	94	85 - 115	2007-05-25

Standard (ICV-1)

QC Batch: 37543 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.886	89	85 - 115	2007-05-25

Standard (CCV-1)

QC Batch: 37543 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.901	90	85 - 115	2007-05-25

Standard (ICV-1)

QC Batch: 37546 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0992	99	85 - 115	2007-05-25
Toluene		mg/Kg	0.100	0.0994	99	85 - 115	2007-05-25
Ethylbenzene		mg/Kg	0.100	0.0959	96	85 - 115	2007-05-25
Xylene		mg/Kg	0.300	0.286	95	85 - 115	2007-05-25

Standard (CCV-1)

QC Batch: 37546 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0988	99	85 - 115	2007-05-25
Toluene		mg/Kg	0.100	0.0974	97	85 - 115	2007-05-25
Ethylbenzene		mg/Kg	0.100	0.0923	92	85 - 115	2007-05-25
Xylene		mg/Kg	0.300	0.281	94	85 - 115	2007-05-25

Standard (ICV-1)

QC Batch: 37547 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.875	88	85 - 115	2007-05-25

Standard (CCV-1)

QC Batch: 37547 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.939	94	85 - 115	2007-05-25

Standard (ICV-1)

QC Batch: 37548 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0946	95	85 - 115	2007-05-25
Toluene		mg/Kg	0.100	0.0945	94	85 - 115	2007-05-25
Ethylbenzene		mg/Kg	0.100	0.0896	90	85 - 115	2007-05-25
Xylene		mg/Kg	0.300	0.270	90	85 - 115	2007-05-25

Standard (CCV-1)

QC Batch: 37548 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0966	97	85 - 115	2007-05-25
Toluene		mg/Kg	0.100	0.0968	97	85 - 115	2007-05-25
Ethylbenzene		mg/Kg	0.100	0.0874	87	85 - 115	2007-05-25
Xylene		mg/Kg	0.300	0.272	91	85 - 115	2007-05-25

Standard (ICV-1)

QC Batch: 37549 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.922	92	85 - 115	2007-05-25

Standard (CCV-1)

QC Batch: 37549 Date Analyzed: 2007-05-25 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2007-05-25

Standard (ICV-1)

QC Batch: 37553 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	212	85	85 - 115	2007-05-26

Standard (CCV-1)

QC Batch: 37553 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	222	89	85 - 115	2007-05-26

Standard (CCV-2)

QC Batch: 37553 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	224	90	85 - 115	2007-05-26

Standard (ICV-1)

QC Batch: 37554 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	214	86	85 - 115	2007-05-26

Standard (CCV-1)

QC Batch: 37554 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	219	88	85 - 115	2007-05-26

Standard (CCV-2)

QC Batch: 37554 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	212	85	85 - 115	2007-05-26

Standard (ICV-1)

QC Batch: 37555 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	250	100	85 - 115	2007-05-26

Standard (CCV-1)

QC Batch: 37555 Date Analyzed: 2007-05-26 Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	230	92	85 - 115	2007-05-26

Standard (ICV-1)

QC Batch: 37618 Date Analyzed: 2007-05-29 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0936	94	85 - 115	2007-05-29
Toluene		mg/Kg	0.100	0.0922	92	85 - 115	2007-05-29
Ethylbenzene		mg/Kg	0.100	0.0887	89	85 - 115	2007-05-29

continued ...

standard continued ...

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Xylene		mg/Kg	0.300	0.265	88	85 - 115	2007-05-29

Standard (CCV-1)

QC Batch: 37618 Date Analyzed: 2007-05-29 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0927	93	85 - 115	2007-05-29
Toluene		mg/Kg	0.100	0.0902	90	85 - 115	2007-05-29
Ethylbenzene		mg/Kg	0.100	0.0875	88	85 - 115	2007-05-29
Xylene		mg/Kg	0.300	0.264	88	85 - 115	2007-05-29

Standard (ICV-1)

QC Batch: 37619 Date Analyzed: 2007-05-29 Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.890	89	85 - 115	2007-05-29

Standard (CCV-1)

QC Batch: 37619 Date Analyzed: 2007-05-29 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.09	109	85 - 115	2007-05-29

Standard (CCV-1)

QC Batch: 37678 Date Analyzed: 2007-05-30 Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	274	110	85 - 115	2007-05-30

Standard (CCV-2)

QC Batch: 37678 Date Analyzed: 2007-05-30 Analyzed By: TG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	248	99	85 - 115	2007-05-30

Standard (ICV-1)

QC Batch: 38253 Date Analyzed: 2007-06-16 Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	13.1	105	90 - 110	2007-06-16

Standard (CCV-1)

QC Batch: 38253 Date Analyzed: 2007-06-16 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	13.1	105	90 - 110	2007-06-16

Standard (ICV-1)

QC Batch: 38254 Date Analyzed: 2007-06-17 Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	13.1	105	90 - 110	2007-06-17

Standard (CCV-1)

QC Batch: 38254 Date Analyzed: 2007-06-17 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	13.0	104	90 - 110	2007-06-17

Standard (ICV-1)

QC Batch: 38310 Date Analyzed: 2007-06-18 Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.9	103	90 - 110	2007-06-18

Standard (CCV-1)

QC Batch: 38310 Date Analyzed: 2007-06-18 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.9	103	90 - 110	2007-06-18

Standard (ICV-1)

QC Batch: 38312 Date Analyzed: 2007-06-19 Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	12.9	103	90 - 110	2007-06-19

Standard (CCV-1)

QC Batch: 38312 Date Analyzed: 2007-06-19 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	25.0	24.0	96	90 - 110	2007-06-19

Standard (ICV-1)

QC Batch: 38352 Date Analyzed: 2007-06-20 Analyzed By: ER

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.3	90	90 - 110	2007-06-20

Standard (CCV-1)

QC Batch: 38352 Date Analyzed: 2007-06-20 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	12.5	11.2	90	90 - 110	2007-06-20

LAB Order ID # 705252G Page 1 of 4

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296

5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313

200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443

6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: BBC International Phone #: (505) 3976388

Address: (Street, City, Zip) 324 W. Marland Fax #: (505) 3970397

Contact Person: Cliff Dawson E-mail:

Invoice to: (If different from above)

Project #: Project Name: State M-500

Project Location (including state): Buckeye New Mexico Sampler Signature: [signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125256	SB2 @ 1'	1	4 oz		✓							✓		5/22	8:05
57	3'	1	4 oz		✓							✓		5/22	8:06
58	5'	1	4 oz		✓							✓		5/22	8:07
59	30'	1	4 oz		✓							✓		5/22	9:04
60	50'	1	4 oz		✓							✓		5/22	10:45
61	SB3 @ 1'	1	4 oz		✓							✓		5/22	11:06
62	3'	1	4 oz		✓							✓		5/22	11:07
63	5'	1	4 oz		✓							✓		5/22	11:08
64	25'	1	4 oz		✓							✓		5/22	11:40
65	39'	1	4 oz		✓							✓		5/22	12:14

	MTBE 3021B / 602 / 8260B / 624	BTEX 3021B / [redacted]	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / [redacted]	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride					Turn Around Time if different from standard	Hold
125256		✓		✓														✓	✓					
57		✓		✓														✓	✓					
58		✓		✓														✓	✓					
59		✓		✓														✓	✓					
60		✓		✓														✓	✓					
61		✓		✓														✓	✓					
62		✓		✓														✓	✓					
63		✓		✓														✓	✓					
64		✓		✓														✓	✓					
65		✓		✓														✓	✓					

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
F. Hernandez	5-24-07	11:45			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	05/25/07	11:40AM

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

LAB USE ONLY

Intact (Y) N

Headspace Y / N

Temp 4°C

Log-In-Review [signature]

Carrier # Bus / GCI 3016000595

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

LAB Order ID # 7052526 Page 2 of 4

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296

5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313

200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443

6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: BBC International
Phone #: (505) 397 6388

Address: (Street, City, Zip) 1324 W. Marland
Fax #: (505) 397 0397

Contact Person: Cliff Brunson
E-mail:

Invoice to: (If different from above)

Project #:
Project Name: State M-S00

Project Location (including state): Buckeye New Mexico
Sampler Signature: [signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	WATER	SOIL	AIR	SLUDGE	HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chlorides	Turn Around Time if different from standard	Hold
125566	SB4 @ 1'	1	4 oz		✓							✓		5/22	1:20		✓		✓														✓		
67	3'	1	4 oz		✓							✓		5/22	1:21		✓		✓														✓		
68	5'	1	4 oz		✓							✓		5/22	1:22		✓		✓														✓		
69	20'	1	4 oz		✓							✓		5/22	1:40		✓		✓														✓		
70	39'	1	4 oz		✓							✓		5/22	2:30		✓		✓														✓		
71	SB5 @ 1'	1	4 oz		✓							✓		5/22	2:52		✓		✓														✓		
72	3'	1	4 oz		✓							✓		5/22	2:58		✓		✓														✓		
73	5'	1	4 oz		✓							✓		5/22	3:00		✓		✓														✓		
74	20'	1	4 oz		✓							✓		5/22	3:37		✓		✓														✓		
75	55'	1	4 oz		✓							✓		5/22	4:00		✓		✓														✓		

Relinquished by: Roger Hernandez Date: 5/24/07 Time: 11:15
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: [signature] Date: 05/25/07 Time: 11:30 A

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4°C
Log-in-Review [initials]

REMARKS:

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Bus / GLI 3040500396

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

LAB Order ID # 7052526 Page 3 of 4

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296

5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313

200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443

6015 Harris Pkwy., Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260

Company Name: BBC International Phone #: (505) 397-6388

Address: (Street, City, Zip) 1324 W. Marland Hobbs NM 88240 Fax #: (505) 397-0397

Contact Person: Cliff Brunson E-mail:

Invoice to: (If different from above)

Project #: Project Name: State M SWD

Project Location (including state): Buckeye New Mexico Sampler Signature: [signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO /	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chlorides	Turn Around Time if different from standard	Hold
125176	SB6 @ 1'	1	4 oz		✓							✓		5/22			✓		✓														✓		
77	3'	1	4 oz		✓							✓		5/22			✓		✓														✓		
78	5'	1	4 oz		✓							✓		5/22			✓		✓														✓		
79	15'	1	4 oz		✓							✓		5/22			✓		✓														✓		
80	35'	1	4 oz		✓							✓		5/22			✓		✓														✓		
81	SB7 @ 1'	1	4 oz		✓							✓		5/23			✓		✓														✓		
82	3'	1	4 oz		✓							✓		5/23			✓		✓														✓		
83	5'	1	4 oz		✓							✓		5/23			✓		✓														✓		
84	20'	1	4 oz		✓							✓		5/23			✓		✓														✓		
85	39'	1	4 oz		✓							✓		5/23			✓		✓														✓		

Relinquished by: Roger Hernandez Date: 5/24/07 Time: 11:50 Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: [signature] Date: 05/25/07 Time: 10:40 AM

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp 1°C

Log-in Review [initials]

REMARKS:

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Carrier # Bus / GLI 3040500596

LAB Order ID # 705256 Page 4 of 4

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296
5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313
200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: ABC Laboratories — Phone #: (505) 397 6388

Address: (Street, City, Zip) 4324 N. Garfield — Fax #: (505) 3970397

Contact Person: Cliff Brunson — E-mail:

Invoice to: (If different from above)

Project #: — Project Name: State M. Swd

Project Location (including state): Eunice New Mexico — Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125786	SB8 @ 1'	1	4 oz		✓							✓		5/23	
87	3'	1	4 oz		✓							✓		5/23	
88	5'	1	4 oz		✓							✓		5/23	
89	20'	1	4 oz		✓							✓		5/23	
90	39'	1	4 oz		✓							✓		5/23	

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / [illegible]	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / CRO / [illegible]	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chlorides					Turn Around Time if different from standard	Hold
125786	✓	✓	✓	✓													✓	✓						
87	✓	✓	✓	✓													✓	✓						
88	✓	✓	✓	✓													✓	✓						
89	✓	✓	✓	✓													✓	✓						
90	✓	✓	✓	✓													✓	✓						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Rosa Hernandez	5/24/07	11:50			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			[illegible]	05/25/07	11:40 AM

LAB USE ONLY

Intact (Y) N

Headspace Y / N

Temp 4°C

Log-in-Review [illegible]

REMARKS:

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Carrier # Bay 3010026576

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

LAB Order ID # 7052526 Page 1 of 4

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: BBC International
Phone #: (505) 3976388
Address: (Street, City, Zip) 1324 W. Marland
Fax #: (505) 3970397
Contact Person: Cliff Brunson
E-mail:
Invoice to: (If different from above)
Project #:
Project Name: State M-SWD
Project Location (including state): Buckeye New Mexico
Sampler Signature: [signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125556	SB2 @ 1'	1	4 oz		✓							✓		5/22	8:05
57	3'	1	4 oz		✓							✓		5/22	8:06
58	5'	1	4 oz		✓							✓		5/22	8:07
59	30'	1	4 oz		✓							✓		5/22	9:04
60	50'	1	4 oz		✓							✓		5/22	10:45
61	SB3@ 1'	1	4 oz		✓							✓		5/22	11:06
62	3'	1	4 oz		✓							✓		5/22	11:07
63	5'	1	4 oz		✓							✓		5/22	11:08
64	25'	1	4 oz		✓							✓		5/22	11:40
65	39'	1	4 oz		✓							✓		5/22	12:14

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB #	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / [illegible]	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / [illegible]	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride			Turn Around Time if different from standard	Hold
125556		✓		✓													•	✓				
57		✓		✓													•	✓				
58		✓		✓													•	✓				
59		✓		✓													•	✓				
60		✓		✓													•	✓				
61		✓		✓													•	✓				
62		✓		✓													•	✓				
63		✓		✓													•	✓				
64		✓		✓													•	✓				
65		✓		✓													•	✓				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Roz Hernandez	5/24/07	11:45			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			[signature]	05/25/07	11:40AM

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4°C
Log-in-Review [initials]

REMARKS:
6-20-07 FEP

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Carrier # Bus / GCI 3040600596

LAB Order ID # 705252b6 Page 2 of 4

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: BBC International
Phone #: (505) 397 6388
Address: (Street, City, Zip) 1324 W. Marland
Fax #: (505) 397 0397
Contact Person: Cliff Brunson
E-mail:
Invoice to: (If different from above)
Project #:
Project Name: State M-SWD
Project Location (including state): Buckeye New Mexico
Sampler Signature: [signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125566	SB4 @ 1'	1	4 oz		✓							✓		5/22	1:20
67	3'	1	4 oz		✓							✓		5/22	1:21
68	5'	1	4 oz		✓							✓		5/22	1:22
69	20'	1	4 oz		✓							✓		5/22	1:48
70	39'	1	4 oz		✓							✓		5/22	2:30
71	SB5 @ 1'	1	4 oz		✓							✓		5/22	2:57
72	3'	1	4 oz		✓							✓		5/22	2:58
73	5'	1	4 oz		✓							✓		5/22	3:00
74	20'	1	4 oz		✓							✓		5/22	3:37
75	35'	1	4 oz		✓							✓		5/22	4:00

LAB #	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chloride	Turn Around Time if different from standard	Hold
125566		✓		✓														✓		
67		✓		✓														✓		
68		✓		✓														✓		
69		✓		✓														✓		
70		✓		✓														✓		
71		✓		✓														✓		
72		✓		✓														✓		
73		✓		✓														✓		
74		✓		✓														✓		
75		✓		✓														✓		

Relinquished by: Roger Hernandez Date: 5/24/07 Time: 11:49
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Alan [signature] Date: 05/25/07 Time: 11:40 AM

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4°C
Log-in-Review [initials]

REMARKS:

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Bus / GLI 3040500596

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

LAB Order ID # 7052526 Page 3 of 4

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: BBC International
Phone #: (505) 397-6388
Address: (Street, City, Zip) 1324 W. Marland Hobbs NM 88240
Fax #: (505) 397-0397
Contact Person: Cliff Brunson
E-mail:
Invoice to: (If different from above)
Project #:
Project Name: State M. SWD
Project Location (including state): Berkeye New Mexico
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125176	SB6 @ 1'	1	4 oz		✓							✓		5/22	
77	3'	1	4 oz		✓							✓		5/22	
78	5'	1	4 oz		✓							✓		5/22	
79	15'	1	4 oz		✓							✓		5/22	
80	35'	1	4 oz		✓							✓		5/22	
81	SB7 @ 1'	1	4 oz		✓							✓		5/23	
82	3'	1	4 oz		✓							✓		5/23	
83	5'	1	4 oz		✓							✓		5/23	
84	20'	1	4 oz		✓							✓		5/23	
85	39'	1	4 oz		✓							✓		5/23	

ANALYSIS REQUEST	Turn Around Time if different from standard	Hold
MTBE 8021B / 602 / 8260B / 624		
BTEX 8021B / [illegible] / [illegible]		
TPH 418.1 / TX1005 / TX1005 Ext(C35)		
TPH 8015 GRO / DRO / [illegible]		
PAH 8270C / 625		
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP Pesticides		
RCI		
GC/MS Vol. 8260B / 624		
GC/MS Semi. Vol. 8270C / 625		
PCB's 8082 / 608		
Pesticides 8081A / 608		
BOD, TSS, pH		
Moisture Content		
Chloride		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Roger Hernandez	5/24/07	11:50			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Ashley Gaston	Date: 05/25/07	Time: 11:40 AM

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 4° C
Log-in-Review

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # Bus / GLI 304060059 16

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL C[illegible]

LAB Order ID # 705256 Page 4 of 4

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: BBC International
Phone #: (505) 397 6388
Address: (Street, City, Zip) 1324 W. Marland
Fax #: (505) 397 0397
Contact Person: Cliff Brunson
E-mail:
Invoice to: (If different from above)
Project #:
Project Name: State M. SWD
Project Location (including state): Buckeye New Mexico
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
125786	SB8 @ 1'	1	4 oz		✓							✓		5/23	
87	3'	1	4 oz		✓							✓		5/23	
88	5'	1	4 oz		✓							✓		5/23	
89	20'	1	4 oz		✓							✓		5/23	
90	39'	1	4 oz		✓							✓		5/23	

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / [redacted]	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / [redacted]	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chlorides	Turn Around Time if different from standard	Hold
	✓	✓	✓													•	✓		
	✓	✓	✓													•	✓		
	✓	✓	✓													•	✓		
	✓	✓	✓													•	✓		
	✓	✓	✓													•	✓		

Relinquished by: Roger Hernandez Date: 5/24/07 Time: 11:50
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Date: 05/25/07 Time: 11:40 AM

LAB USE ONLY
Intact Y N
Headspace Y / N
Temp 4°C
Log-in-Review

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # Bus 304060596

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

APPENDIX III

INVENTORY OF WATER WELLS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc.
Hobbs, NM

Prepared by:
BBC International, Inc.

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 17S Range: 36E Sections: 7,17,18,19,20

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic
◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

WATER COLUMN REPORT 07/25/2007

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Wate Colun
L 04602	17S	36E	17	3	4	2				115	45	7
L 04602 APPRO	17S	36E	17	4	3	2				115	45	7
L 04171 APPRO	17S	36E	18	1	4					128	128	
L 04171	17S	36E	18	1	4					128	128	
L 05407	17S	36E	19	1	4					108	49	5
L 10681	17S	36E	19	4	1					120	40	8
L 05361	17S	36E	20							123	90	3
L 09342	17S	36E	20							138	60	7
L 04599 APPRO	17S	36E	20	1	2					128	38	9
L 04599	17S	36E	20	1	2					128	38	9
L 05181	17S	36E	20	1	4					125	75	5
L 04549	17S	36E	20	2	1					121	48	7
L 04549 APPRO	17S	36E	20	2	1					121	48	7
L 07862	17S	36E	20	3	4					110	58	5

Record Count: 14

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 17S Range: 35E Sections: 13,24

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic
◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

WATER COLUMN REPORT 07/25/2007

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Depth Well	Depth Water	Wate Colun
L 04503 APPRO	17S	35E	24	2						90	43	4
L 04503	17S	35E	24	2						90	43	4

Record Count: 2

APPENDIX IV

DRILLING LOGS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc.
Hobbs, NM

Prepared by:
BBC International, Inc.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Chesapeake Operating Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 190
City: Hobbs State: NM Zip: 88241

2. LOCATION OF WELL (A,B,C, or D required, E or F if known)

A. ____ 1/4 ____ 1/4 ____ 1/4 Section: 18 Township: 17S Range: 36E N.M.P.M.
in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 49 m 40.7 s Longitude: 103 d 23 m 28.3 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: State M Salt Water Disposal

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Darr Angell, P.O. Box 190, Lovington, NM 88260

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD MW-1

Drilling began: 5/23/07 ; Completed: 5/23/07 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 50.0 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: 41.25 ft.

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: MW-1

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)
41.0	50.0	9.0	Stained grayish green sand.	

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2.0	Sch. 40	4.0	0.0	35.0	35.0			
2.0	.010	4.0	35.0	50.0	15.0		35.0	50.0

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
50.0	33.0	6 1/8	8.0		20/40 Sand
33.0	10.0	6 1/8	8.0		Bent. Pellets
10.0	0.0	6 1/8	4.0	1.997	Cement

8. PLUGGING RECORD

Plugging Contractor: _____

Address: _____

Plugging Method: _____

Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feet of Cement
1			
2			
3			
4			
5			

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: MW-1

Depth in feet From	To	Thickness in feet	Color and Type of Material Encountered
0.0	1.0	1.0	Brown sandy clay.
1.0	8.0	7.0	Black & gray green stained sludge.(old pit)
8.0	12.0	4.0	Limestone stained grayish green.
12.0	17.0	5.0	Stained caliche.
17.0	25.0	8.0	Stained grayish green sand.
25.0	28.0	3.0	Stained grayish green sandstone.
28.0	50.0	22.0	Stained grayish green sand.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: MW-1
Hydrocarbons present in soil.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ Driller

7/10/07 (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____ ;FWL _____ ;FSL _____ ;Use _____ ;Location No. _____

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Chesapeake Operating Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 190
City: Hobbs State: NM Zip: 88241

2. LOCATION OF WELL (A,B,C, or D required, E or F if known)

A. ____ 1/4 ____ 1/4 ____ 1/4 Section: 18 Township: 17S Range: 36E N.M.P.M.
in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 49 m 42.1 s Longitude: 103 d 23 m 27.4 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: State M Salt Water Disposal

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Darr Angell, P.O. Box 190, Lovington, NM 88260

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: SB-1

Drilling began: 5/03/07 ; Completed: 5/03/07 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 39.0 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: Dry ft.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-1

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
39.0	10.0	6 1/8	8.5		Bentonite Pellets
10.0	0.0	6 1/8	4.5	19.97	cement

8. PLUGGING RECORD

Plugging Contractor: _____

Address: _____

Plugging Method: _____

Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feet of Cement
1			
2			
3			
4			
5			

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: SB-1

Depth in feet From	To	Thickness in feet	Color and Type of Material Encountered
0.0	0.5	0.5	Brown clay & limestone rocks.
0.5	5.0	4.5	Limestone.
5.0	12.0	7.0	Caliche & tan sand.
12.0	20.0	8.0	Tan sandstone.
20.0	22.0	2.0	Moist caliche.
22.0	37.0	15.0	Tan sandstone & tan sand.
37.0	39.0	2.0	Moist brown sand.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-1

Chlorides present in soil.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ _____
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____ ;FWL _____ ;FSL _____ ;Use _____ ;Location No. _____

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Chesapeake Operating Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 190
City: Hobbs State: NM Zip: 88241

2. LOCATION OF WELL (A,B,C, or D required, E or F if known)

A. ____ 1/4 ____ 1/4 ____ 1/4 Section: 18 Township: 17S Range: 36E N.M.P.M.
in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 49 m 40.7 s Longitude: 103 d 23 m 28.3 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: State M Salt Water Disposal

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Darr Angell, P.O. Box 190, Lovington, NM 88260

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-2

Drilling began: 5/22/07 ; Completed: 5/23/07 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 50.0 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: 42.25 ft.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-2

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)
40.0	50.0	10.0	Light brown sand tight packed.	

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To
2.0	Sch. 40	4.0	0.0	35.0	35.0			
2.0	.020	4.0	35.0	50.0	15.0		35.0	50.0

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
50.0	10.0	6 1/8	13.0		Bentonite Pellets
10.0	0.0	6 1/8	4.5	19.97	cement

8. PLUGGING RECORD

Plugging Contractor: _____

Address: _____

Plugging Method: _____

Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feet of Cement
1			
2			
3			
4			
5			

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: SB-2

Depth in feet From	To	Thickness in feet	Color and Type of Material Encountered
0.0	2.0	2.0	Stained black clayey sand.
2.0	6.0	4.0	Limestone & stained caliche.
6.0	20.0	14.0	Caliche & tan sand.
20.0	27.0	7.0	Tan sand.
27.0	35.0	8.0	Sandstone tan & light brown.
35.0	38.0	3.0	Tan sand.
38.0	50.0	12.0	Light brown sand tight packed. Wet @ 40'

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-2

Chlorides present in soil.

Temporary well set to measure groundwater for 24 hours, pull and plugged.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

7/10/07
(mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____ ;FWL _____ ;FSL _____ ;Use _____ ;Location No. _____

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Chesapeake Operating Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 190
_____
City: Hobbs State: NM Zip: 88241

2. LOCATION OF WELL (A,B,C, or D required, E or F if known)

A. ____ 1/4 ____ 1/4 ____ 1/4 Section: 18 Township: 17S Range: 36E N.M.P.M.
in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 49 m 41.0 s Longitude: 103 d 23 m 27.8 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: State M Salt Water Disposal

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Darr Angell, P.O. Box 190, Lovington, NM 88260

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
_____
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-3

Drilling began: 5/22/07 ; Completed: 5/22/07 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 39.0 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: Dry ft.

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-3

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
39.0	10.0	6 1/8	9.0		Bentonite Pellets
10.0	0.0	6 1/8	4.5	19.97	cement

8. PLUGGING RECORD

Plugging Contractor: _____

Address: _____

Plugging Method: _____

Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feet of Cement
1			
2			
3			
4			
5			

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: SB-3

Depth in feet From	To	Thickness in feet	Color and Type of Material Encountered
0.0	1.0	1.0	Black sandy clay.
1.0	3.0	2.0	Black limestone & caliche dirty.
3.0	10.0	7.0	Caliche & thin layered limestone.
10.0	21.0	11.0	Caliche and tan sand.
21.0	25.0	4.0	Reddish brown sand & gravel.
25.0	37.0	12.0	Tannish brown sandstone.
37.0	39.0	2.0	Light brown sand. moist

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-3
Chlorides present in soil.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ Driller

11/10/17 (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____ ;FWL _____ ;FSL _____ ;Use _____ ;Location No. _____

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Chesapeake Operating Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 190
City: Hobbs State: NM Zip: 88241

2. LOCATION OF WELL (A,B,C,or D required,E or F if known)

A. _____ 1/4 _____ 1/4 _____ 1/4 Section: 18 Township: 17S Range: 36E N.M.P.M. in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 49 m 41.7 s Longitude: 103 d 23 m 27.2 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the _____ Subdivision recorded in _____ County.

G. Other: State M Salt Water Disposal

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Darr Angell, P.O. Box 190, Lovington, NM 88260

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-4

Drilling began: 5/22/07 ; Completed: 5/22/07 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 39.0 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: Dry ft.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-4

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
39.0	10.0	6 1/8	9.0		Bentonite Pellets
10.0	0.0	6 1/8	4.5	19.97	cement

8. PLUGGING RECORD

Plugging Contractor: _____

Address: _____

Plugging Method: _____

Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feet of Cement
1			
2			
3			
4			
5			

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: SB-4

Depth in feet From	To	Thickness in feet	Color and Type of Material Encountered
0.0	1.0	1.0	Black clayey sand.
1.0	2.0	1.0	Stained brown caliche.
2.0	5.0	3.0	Limestone.
5.0	14.0	9.0	Caliche & tan sandstone.
14.0	21.0	7.0	Light brown & tan sand w/gravel.
21.0	27.0	6.0	Light brown sandstone & sand.
27.0	28.0	1.0	Caliche.
28.0	39.0	11.0	Light brown sand & sandstone.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-4

Chlorides present in soil.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ Driller

7/10/04 (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____ ;FWL _____ ;FSL _____ ;Use _____ ;Location No. _____

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Chesapeake Operating Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 190
City: Hobbs State: NM Zip: 88241

2. LOCATION OF WELL (A,B,C,or D required,E or F if known)

A. ____ 1/4 ____ 1/4 ____ 1/4 Section: 18 Township: 17S Range: 36E N.M.P.M.
in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 49 m 41.4 s Longitude: 103 d 23 m 25.8 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: State M Salt Water Disposal

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Darr Angell, P.O. Box 190, Lovington, NM 88260

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: SB-5

Drilling began: 5/22/07 ; Completed: 5/22/07 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 35.0 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: Dry ft.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-5

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
35.0	10.0	6 1/8	8.5		Bentonite Pellets
10.0	0.0	6 1/8	4.5	19.97	cement

8. PLUGGING RECORD

Plugging Contractor: _____

Address: _____

Plugging Method: _____

Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feet of Cement
1			
2			
3			
4			
5			

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: SB-5

Depth in feet From	To	Thickness in feet	Color and Type of Material Encountered
0.0	3.5	3.5	White limestone.
3.5	10.0	6.5	Caliche & limestone.
10.0	15.0	5.0	Caliche & tan sand.
15.0	18.0	3.0	Tan sand & sandstone.
18.0	20.0	2.0	Light brown sand & sandstone.
20.0	25.5	5.5	Moist light brown sandstone.
25.5	28.0	2.5	Very hard brown sandstone.
28.0	35.0	7.0	Light brown sandstone.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-5

Chlorides present in soil.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ 7/10/07
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____ ;FWL _____ ;FSL _____ ;Use _____ ;Location No. _____

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Chesapeake Operating Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 190
_____
City: Hobbs State: NM Zip: 88241

2. LOCATION OF WELL (A,B,C, or D required, E or F if known)

A. ____ 1/4 ____ 1/4 ____ 1/4 Section: 18 Township: 17S Range: 36E N.M.P.M.
in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 49 m 40.7 s Longitude: 103 d 23 m 25.9 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: State M Salt Water Disposal

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Darr Angell, P.O. Box 190, Lovington, NM 88260

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
_____
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: SB-6

Drilling began: 5/22/07 ; Completed: 5/22/07 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 35.0 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: Dry ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-6

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
35.0	10.0	6 1/8	8.5		Bentonite Pellets
10.0	0.0	6 1/8	4.5	19.97	cement

8. PLUGGING RECORD

Plugging Contractor: _____

Address: _____

Plugging Method: _____

Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feet of Cement
1			
2			
3			
4			
5			

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: SB-6

Depth in feet From	To	Thickness in feet	Color and Type of Material Encountered
0.0	6.0	6.0	Limestone.
6.0	22.0	16.0	Caliche & tan sand.
22.0	24.0	2.0	Hard sandstone.
24.0	25.0	1.0	Light brown sand & sandstone.
25.0	28.0	3.0	Hard sandstone light brown.
28.0	32.0	4.0	Light brown sandstone.
32.0	35.0	3.0	Tan sand & sanstone.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-6
Chlorides present in soil.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ 7/10/07
Driller (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____ ;FWL _____ ;FSL _____ ;Use _____ ;Location No. _____

File Number: _____ Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

1. OWNER OF WELL

Name: Chesapeake Operating Work Phone: _____
Contact: _____ Home Phone: _____
Address: P.O. Box 190
City: Hobbs State: NM Zip: 88241

2. LOCATION OF WELL (A,B,C, or D required, E or F if known)

A. ____ 1/4 ____ 1/4 ____ 1/4 Section: 18 Township: 17S Range: 36E N.M.P.M.
in Lea County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
_____ Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 49 m 40.2 s Longitude: 103 d 23 m 27.5 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: State M Salt Water Disposal

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Darr Angell, P.O. Box 190, Lovington, NM 88260

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD SB-8

Drilling began: 5/23/07 ; Completed: 5/23/07 ; Type tools: Air Rotary ;
Size of hole: 6 1/8 in.; Total depth of well: 39.0 ft.;
Completed well is: Shallow (shallow, artesian);
Depth to water upon completion of well: Dry ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-8

Depth in Feet From	To	Thickness in feet	Description of water-bearing formation	Estimated Yield (GPM)

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet Top	Bottom	Length (feet)	Type of Shoe	Perforations From	To

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet From	To	Hole Diameter	Sacks of mud	Cubic Feet of Cement	Method of Placement
39.0	10.0	6 1/8	9.0		Bentonite Pellets
10.0	0.0	6 1/8	4.5	19.97	cement

8. PLUGGING RECORD

Plugging Contractor: _____

Address: _____

Plugging Method: _____

Date Well Plugged: _____

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet Top	Bottom	Cubic Feet of Cement
1			
2			
3			
4			
5			

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: SB-8

Depth in feet From	To	Thickness in feet	Color and Type of Material Encountered
0.0	1.0	1.0	Brown sandy clay.
1.0	5.0	4.0	Limestone.
5.0	10.0	5.0	Caliche & thin layered limestone.
10.0	14.0	4.0	Tan sand w/gravel.
14.0	18.0	4.0	Tan sand.
18.0	22.0	4.0	Light brown sand.
22.0	24.0	2.0	Light brown sand w/gravel.
24.0	30.0	6.0	Light brown sand.
30.0	33.0	3.0	Tan sand.
33.0	39.0	6.0	Light brown sand.

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

10. ADDITIONAL STATEMENTS OR EXPLANATIONS: SB-8
Chlorides present in soil.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

_____ Driller

7/10/07 (mm/dd/year)

==========

FOR STATE ENGINEER USE ONLY

Quad _____ ;FWL _____ ;FSL _____ ;Use _____ ;Location No. _____

File Number: _____ Trn Number: _____

TABLES

TABLE 1
SUMMARY SOIL ANALYTICAL DATA
TABLE 2
SUMMARY GROUND WATER ANALYTICAL DATA

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc.
Hobbs, NM

Prepared by:
BBC International, Inc.

Table 1. Soil Laboratory Analytical Results Summary
State M-1

Analyte	Method	Sample Date	SB1 @ 1'	SB1 @ 3'	SB1 @ 5'	SB1 @ 20'	SB1 @ 39'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/03/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Toluene	S 8021B	05/03/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Ethylbenzene	S 8021B	05/03/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Total Xylenes	S 8021B	05/03/07	0.168	<0.0100	<0.0100	<0.0100	<0.0100
Chloride	EPA 300.0	05/03/07	1790	617	2120	5140	408
GRO	S 8015B	05/03/07	36.4	<1.00	<1.00	<1.00	<1.00
DRO	Mod. 8015B	05/03/07	110	<50.0	<50.0	<50.0	<50.0

Analyte	Method	Sample Date	SB2 @ 1'	SB2 @ 3'	SB2 @ 5'	SB2 @ 30'	SB2 @ 50'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Toluene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Ethylbenzene	S 8021B	05/22/07	2.56	0.0382	<0.0100	<0.0100	<0.0100
Total Xylenes	S 8021B	05/22/07	11.5	0.210	<0.0100	<0.0100	<0.0100
Chloride	EPA 300.0	05/22/07	2020	402	306	2060	43.5
GRO	S 8015B	05/22/07	657	45.4	<1.00	<1.00	<1.00
DRO	Mod. 8015B	05/22/07	1430	288	<50.0	<50.0	<50.0

Analyte	Method	Sample Date	SB3 @ 1'	SB3 @ 3'	SB3 @ 5'	SB3 @ 25'	SB3 @ 39'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/22/07	<0.200	<0.0100	<0.0100	<0.0100	<0.0100
Toluene	S 8021B	05/22/07	<0.200	<0.0100	<0.0100	<0.0100	<0.0100
Ethylbenzene	S 8021B	05/22/07	2.28	<0.0100	<0.0100	<0.0100	<0.0100
Total Xylenes	S 8021B	05/22/07	3.17	<0.0100	<0.0100	<0.0100	<0.0100
Chloride	EPA 300.0	05/22/07	2720	1270	1400	2530	328
GRO	S 8015B	05/22/07	270	2.26	1.11	<1.00	<1.00
DRO	Mod. 8015B	05/22/07	2710	<50.0	<50.0	<50.0	<50.0

Analyte	Method	Sample Date	SB4 @ 1'	SB4 @ 3'	SB4 @ 5'	SB4 @ 20'	SB4 @ 39'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Toluene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Ethylbenzene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Total Xylenes	S 8021B	05/22/07	0.0408	<0.0100	<0.0100	<0.0100	<0.0100
Chloride	EPA 300.0	05/22/07	120	117	238	3310	144
GRO	S 8015B	05/22/07	16.4	<1.00	<1.00	<1.00	<1.00
DRO	Mod. 8015B	05/22/07	<50.0	<50.0	<50.0	<50.0	<50.0

Table 1. Soil Laboratory Analytical Results Summary
State M-1

Analyte	Method	Sample Date	SB5 @ 1'	SB5 @ 3'	SB5 @ 5'	SB5 @ 20'	SB5 @ 35'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Toluene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Ethylbenzene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Total Xylenes	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chloride	EPA 300.0	05/22/07	1210	882	1490	2080	49.1
GRO	S 8015B	05/22/07	<1.00	<1.00	<1.00	<1.00	<1.00
DRO	Mod. 8015B	05/22/07	<50.0	<50.0	<50.0	<50.0	<50.0

Analyte	Method	Sample Date	SB6 @ 1'	SB6 @ 3'	SB6 @ 5'	SB6 @ 15'	SB6 @ 35'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Toluene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Ethylbenzene	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Total Xylenes	S 8021B	05/22/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chloride	EPA 300.0	05/22/07	414	243	705	1460	461
GRO	S 8015B	05/22/07	<1.00	<1.00	1300	<1.00	<1.00
DRO	Mod. 8015B	05/22/07	<50.0	<50.0	<50.0	<50.0	<50.0

Analyte	Method	Sample Date	SB7 @ 1'	SB7 @ 3'	SB7 @ 5'	SB7 @ 20'	SB7 @ 39'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/23/07	0.0717	<0.0100	1.24	6.46	73.8
Toluene	S 8021B	05/23/07	0.0699	<0.0100	<0.200	0.770	46.5
Ethylbenzene	S 8021B	05/23/07	0.157	<0.0100	0.948	21.4	170
Total Xylenes	S 8021B	05/23/07	0.244	0.478	4.05	40.0	269
Chloride	EPA 300.0	05/23/07	42.8	41.6	210	19.0	24.9
GRO	S 8015B	05/23/07	21.1	73.9	377	1010	8800
DRO	Mod. 8015B	05/23/07	814	4380	16700	6620	21600

Analyte	Method	Sample Date	SB8 @ 1'	SB8 @ 3'	SB8 @ 5'	SB8 @ 20'	SB8 @ 39'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/23/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Toluene	S 8021B	05/23/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Ethylbenzene	S 8021B	05/23/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Total Xylenes	S 8021B	05/23/07	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chloride	EPA 300.0	05/23/07	10800	290	303	2190	263
GRO	S 8015B	05/23/07	5.65	<1.00	<1.00	<1.00	<1.00
DRO	Mod. 8015B	05/23/07	<50.0	<50.0	<50.0	<50.0	<50.0

Table 2. Groundwater Laboratory Analytical Results Summary
State M-1

		Sample	TMW
Analyte	Method	Date	
			mg/L
Benzene	S 8021B	05/23/07	<0.00100
Toluene	S 8021B	05/23/07	<0.00100
Ethylbenzene	S 8021B	05/23/07	<0.00100
Total Xylenes	S 8021B	05/23/07	<0.00100
Chloride	EPA 300.0	05/23/07	108
GRO	S 8015B	05/23/07	<0.100
DRO	Mod. 8015B	05/23/07	<5.00