AP - 072

STAGE 1 PROPOSAL

DATE: 8/28/2007

WORLD-WIDE ENVIRONMENTAL SPECIALISTS





PHONE (505) 397-6358 • FAX, 505) 397-0397 • 1324 W MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 F-MAIL: bbc@bbcintemational.com

August 22, 2007

VIA FEDERAL EXPRESS AIRBILL NUMBER: 7924 0212 6496

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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. Tumon

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: <u>cbrunson@bbcinternational.com</u>

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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 nondetectable 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 nondetectable. 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° F (4° C). 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

4

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° F (4° C). 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[°]F (4[°]C). 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



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

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August 2007

Chesapeake Operating, Inc. Hobbs, NM

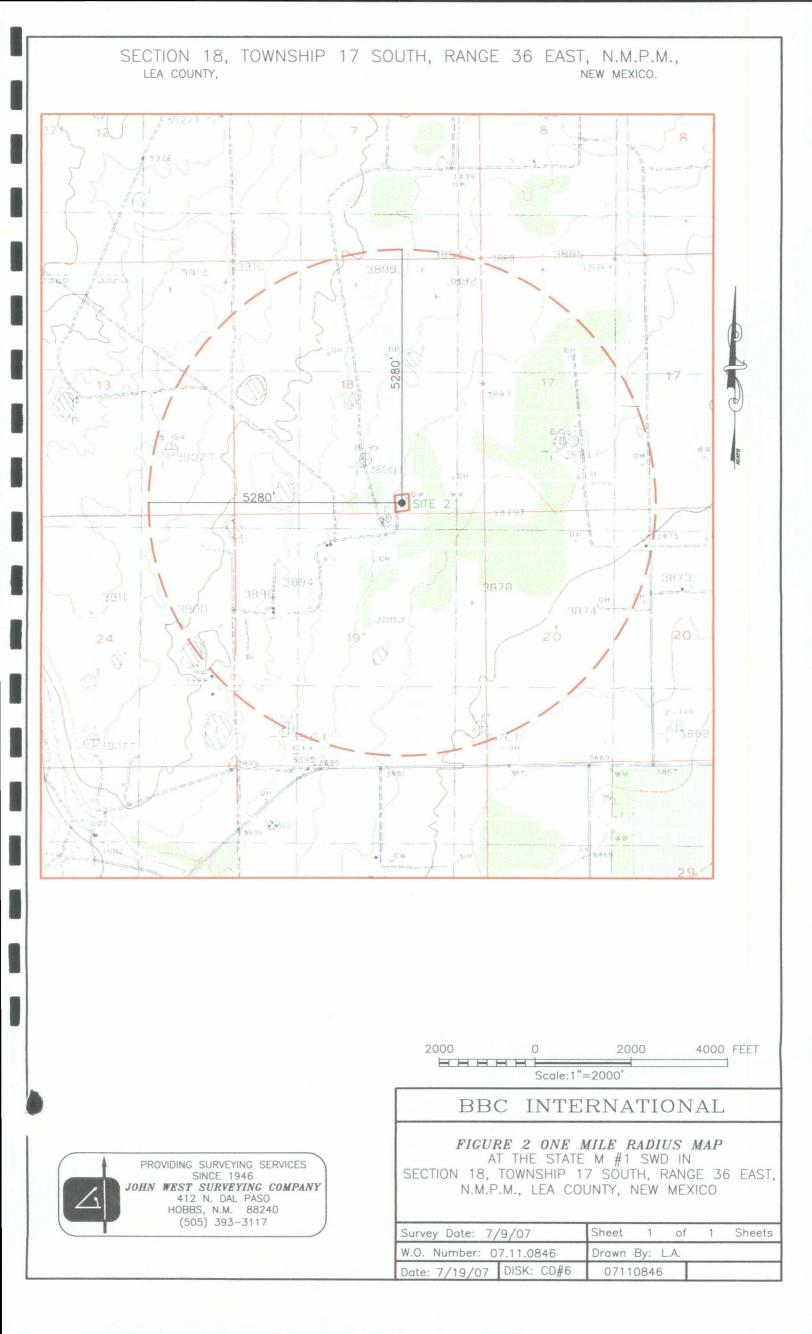


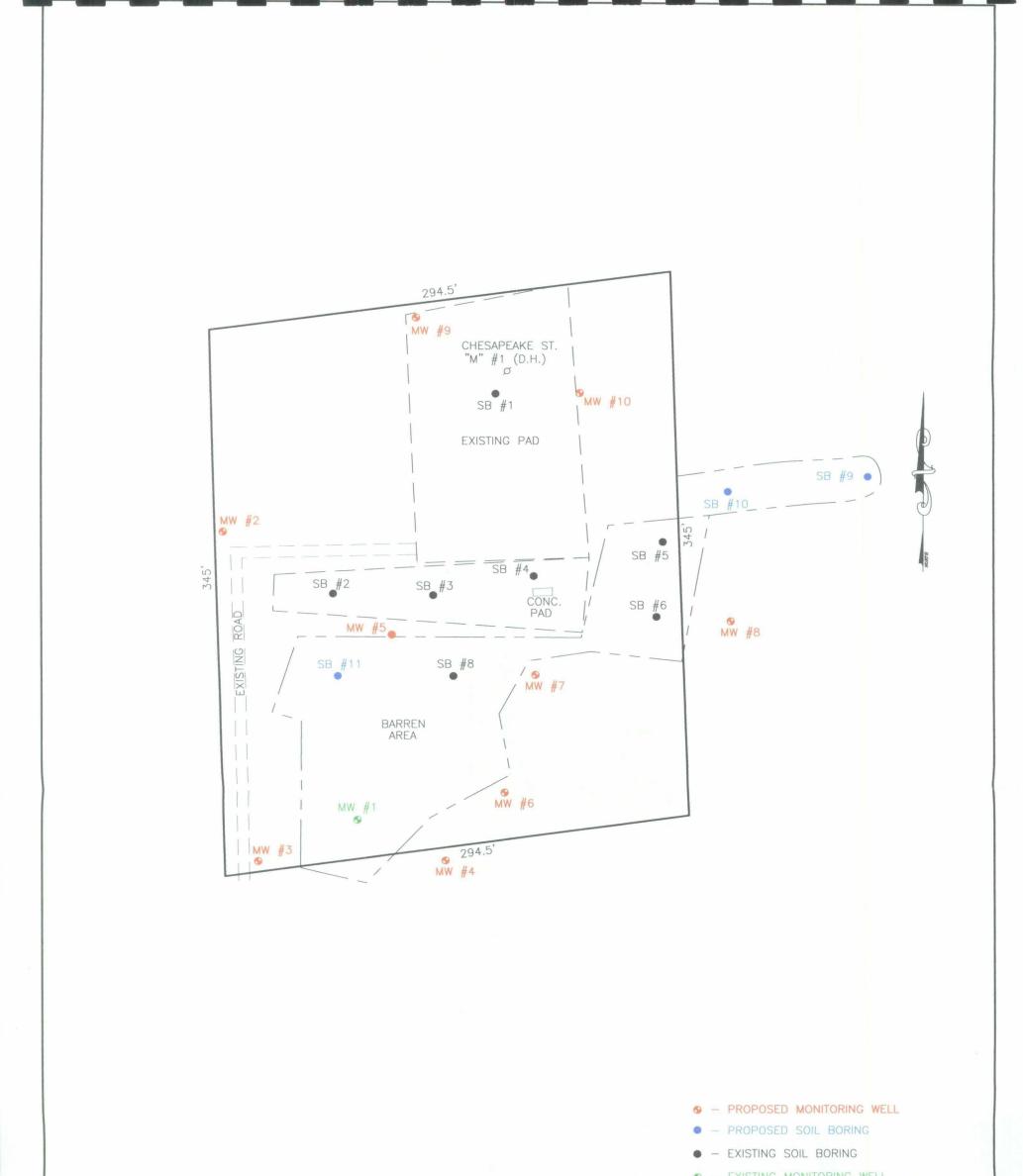
FIGURE 3

PROPOSED SOIL BORING AND MONITOR WELLS

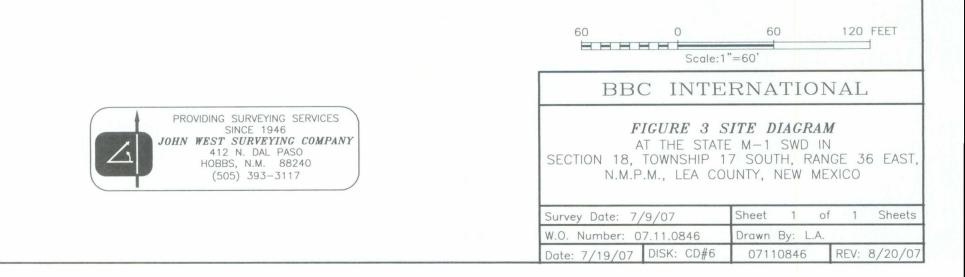
STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM



EXISTING MONITORING WELL



APPENDIX I

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CORRESPONDENCE

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM

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 <u>cbrunson@bbcinternational.com</u> or Bradley Blevins of Chesapeake at (505) 391-1462, ext. 6224 or via e-mail at <u>bblevins@chkenergy.com</u>.

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.

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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

Mr. Brad Blevins June 19, 2007 Page 2

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

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August 2007

Chesapeake Operating, Inc. Hobbs, NM

Work Order: 7050717 State M SWD

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

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

]	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	\mathbf{Result}	Units	\mathbf{RL}
Chloride		2120	mg/Kg	1.00 .

Sample: 123487 - SB1 @ 20' #003929

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock. TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: May 14, 2007		Work Order: 7050717 State M SWD		Page Number: 2 of 2 Buckeye,NM
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



200 East Sunset Road, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 Ft. Worth, Texas 76132

800•378•1296 888•588•3443

 806 • 794 • 1296
 FAX 806 • 794 • 1298

 915 • 585 • 3443
 FAX 915 • 585 • 4944

 432 • 689 • 6301
 FAX 432 • 689 • 6313

 817 • 201 • 5260
 FAX 432 • 689 • 6313

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.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blair Leftwich, Director

Standard Flags

 ${f B}$ - 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.

Method
S 8021B
E 300.0
Mod. 8015B
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.

Report Date: May 14, 2007	Work Order: 7050717	Page Number: 3 of 15
State M SWD	State M SWD	Buckeye,NM

Analytical Report

Sample: 123484 - SB1 @ 1 #004004

Toluene <0.0100	
Benzene <0.0100 mg/Kg 1 Toluene <0.0100	
Toluene <0.0100 mg/Kg 1 Ethylbenzene <0.0100	RL
Ethylbenzene <0.0100 mg/Kg 1	0.0100
Ethylbenzene <0.0100 mg/Kg 1	0.0100
Xylene 0.168 mg/Kg 1	0.0100
	0.0100
Spike Percent Rec	overy
Surrogate Flag Result Units Dilution Amount Recovery Li	mits
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
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		1790	mg/Kg	100	1.00

Sample: 123484 - SB1 @ 1 #004004

Analysis: QC Batch: Prep Batch:	TPH DRO 37046 32141		Analytical Me Date Analyze Sample Prepa	d:	Mod. 801 2007-05-0 2007-05-0)7	Prep M Analyz Prepar	•.	N/A DS TG
			RL						
Parameter	Fla	ıg	Result		Units		Dilution		RL
DRO			110		mg/Kg		1		50.0
Surrogate	Flag	Result	Units	Dilut	ion	Spike Amount	Percent Recovery		overy mits
n-Triacontan		206	mg/Kg	1		150	137		$\frac{11115}{1-164}$
			0/ ***0			100	201	00.0	. 103

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

Report Date: May 14, 2007 State M SWD		<u></u>	Work Order: 7050717 State M SWD			Page Number: 4 of 15 Buckeye,NM		
Parameter	Flag		RL Result		Units	D	ilution	RL
GRO			36.4		mg/Kg		10	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (T	TFT)		0.880	mg/Kg	10	1.00	88	33.2 - 160
4-Bromofluorobenz	ene (4-BFB)		1.09	mg/Kg	10	1.00	109	10 - 227

Sample: 123485 - SB1 @ 3 #004001

Analysis:BTEQC Batch:3703. Prep Batch:3213	8	D a	nalytical Me ate Analyze mple Prepa	d:	S 8021B 2007-05-07 2007-05-07		Prep Metho Analyzed B Prepared B	y: MT
			RL					
Parameter	Flag		Result		Units	Dil	ution	RL
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate	· F	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (]	(FT)		0.821	mg/Kg	<u> </u>	1.00	82	52.1 - 131
4-Bromofluorobenz	zene (4-BFB)	••••••••••••••••	0.805	mg/Kg	<u> </u>	1.00	80	48.7 - 146

Sample: 123485 - SB1 @ 3 #004001

Analysis: QC Batch: Prep Batch:	Chloride (IC) 37168 32245	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-05-11 2007-05-11	Prep Method: Analyzed By: Prepared By:	EŔ
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		617	mg/Kg	50	1.00

Sample: 123485 - SB1 @ 3 #004001

Analysis: QC Batch: Prep Batch:	TPH DRO 37046 32141		Analytical Me Date Analyzee Sample Prepa	d: 2007-0		Prep M Analyz Prepar	•
			RL				
Parameter	Fla	<u>z</u>	Result	Un	lits	Dilution	RL
DRO			<50.0	mg/	Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	209	mg/Kg	1	150	139	33.3 - 164

Report Date: May 14, 2007	Work Order: 7050717	Page Number: 5 of 15
State M SWD	State M SWD	Buckeye,NM

Sample: 123485 - SB1 @ 3 #004001

Analysis: QC Batch: Prep Batch:	TPH GRO 37039 32135		Analytical Date Anal Sample Pr	vzed:	S 8015B 2007-05-07 2007-05-07		Prep Meth Analyzed Prepared 1	By: MT
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.02	mg/Kg	1	1.00	102	33.2 - 160
4-Bromofiuo:	robenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	10 - 227

Sample: 123486 - SB1 @ 5 #003895

Analysis: QC Batch: Prep Batch:	BTEX 37038 32135			Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-07 2007-05-07		Prep Meth Analyzed I Prepared I	By: MT
				RL					
Parameter		Flag		Result		Units	D	ilution	RL
Benzene				< 0.0100		mg/Kg		1	0.0100
Toluene				< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	e e e e e e e e e e e e e e e e e e e			< 0.0100		mg/Kg		1	0.0100
Xylene				< 0.0100		mg/Kg		1	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)			0.786	mg/K	g 1	1.00	79	52.1 - 131
4-Bromofiuor	obenzene (4-B	FB)		0.772	mg/K	g 1	1.00	77	48.7 - 146

Sample: 123486 - SB1 @ 5 #003895

Analysis: QC Batch: Prep Batch:	Chloride (IC) 37168 32245	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-05-11 2007-05-11	Prep Method: Analyzed By: Prepared By:	\mathbf{ER}
Duramatar	Elor	RL	T 3 - 5 4 -		זת
Parameter	Flag	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

Report Date: Ma State M SWD	y 14, 2007			Order: 7050717 ate M SWD.		Page Na	imber: 6 of 15 Buckeye,NM
Parameter	Fla	g	RL Result	Uni	ts	Dilution	RL
DRO			<50.0	mg/I	ζg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		197	mg/Kg]	150	131	33.3 - 164

Sample: 123486 - SB1 @ 5 #003895

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Analysis: QC Batch: Prep Batch:	TPH GRO 37039 32135		Analytical Date Anal Sample Pr	yzed:	S 8015B 2007-05-07 2007-05-07		Prep Meth Analyzed Prepared I	By: MT
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu 4-Bromofluor	ene (TFT) robenzene (4-BFB)		0.974 0.996	mg/Kg mg/Kg	1	1.00 1.00	97 100	33.2 - 160 10 - 227

Sample: 123487 - SB1 @ 20' #003929

Analysis: QC Batch: Prep Batch:	BTEX 37038 32135		Analytical M Date Analyze Sample Prepa	ed:	S 8021B 2007-05-07 2007-05-07		Prep Meth Analyzed I Prepared I	By: MT
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	2		< 0.0100		mg/Kg		1	0.0100
Xylene		·	< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.791	mg/Kj	z 1	1.00	79	52.1 - 131
4-Bromofluor	obenzene (4-BFB)		0.770	mg/Kg	<u>g 1</u>	1.00	77	48.7 - 146

Sample: 123487 - SB1 @ 20' #003929

Analysis: QC Batch: Prep Batch:	Chloride (IC) 37168 32245	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-05-11 2007-05-11	Prep Method: Analyzed By: Prepared By:	'
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		5140	mg/Kg	500	1.00

Report Date: State M SWI	Мау [.] 14, 2007 Э			ork Order: State M S			Page Nu:	mber: 7 of 18 Buckeye,NM
Sample: 123	3487 - SB1 @ :	20' #00392	:9					
Analysis: QC Batch: Prep Batch:	TPH DRO 37046 32141		Analytical Date Anal Sample Pr	vzed:	Mod. 8015 2007-05-07 2007-05-07		Prep Ma Analyze Prepare	ed By: DS
			RL					
Parameter	Fla	1.C	Result		Units		Dilution	RL
DRO		0	<50.0		mg/Kg		1	50.0
_						Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dil	ution	Amount	Recovery	Limits
n-Triacontane	2	184	mg/Kg		1	150	123	33.3 - 164
Sample: 12: Analysis: QC Batch: Prep Batch:	3487 - SB1 @ : TPH GRO 37039 32135	20' #00392	Analytical Date Anal Sample Pr	yzed:	S 8015B 2007-05-07 2007-05-07		Prep Met Analyzed Prepared	By: MT
Parameter	Fla		RL Result		Units		Dilution	וס
GRO	1.16	18	<1.00		mg/Kg		1	
				T7		Spike	Percent	Recovery
Surrogate Trifluorotolue	ene (TFT)	Flag	Result 0.986	Units mg/Kg	Dilution	Amount 1.00	Recovery 99	Limits 33.2 - 160
	obenzene (4-BF)	B)	0.975	mg/Kg	1	1.00	98	10 - 227
Sample: 12: Analysis: QC Batch: Prep Batch:	3488 - SB1 @ BTEX 37038 32135	3 9' #0038{	31 Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-07 2007-05-07		Prep Met Analyzed Prepared	By: MT
Parameter		lag	RL Result		Units		Dilution	RI
Benzene			< 0.0100		mg/Kg		1	0.010
Toluene			< 0.0100		mg/Kg		1	0.010
Ethylbenzene	2		< 0.0100		mg/Kg		1	0.010
Xylene			< 0.0100)	mg/Kg		1	0.010
Surrogate		Flag		Units	Dilutior			Recovery Limits
Trifluorotolue	ene (TFT)		0.731	mg/Kg	1	1.00	73	52.1 - 13
	obenzene (4-BF		0.701	mg/Kg		1.00	70	48.7 - 14

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State M SW	:: May 14, 2007 D		W	ork Order: State M S			rage Nu	mber: 8 of 1 Buckeye,N1
Sample: 12	3488 - SB1 @ 3	9, #003881						
Analysis:	Chloride (IC)		Analytic	cal Method	E 300.0		Prep M	ethod: N/J
QC Batch:	37168		Date A1		2007-05-11	1	Analyze	
Prep Batch:	32245			Preparation			Prepare	
			RL					
Parameter	Flag	ŗ	Result		Units	D	lution	R
Chloride			408		mg/Kg	· · · · · · · · · · · · · · · · · · ·	5()	1.0
Sample, 12	3488 - SB1 @ 3	0, 2003661						
-		9 #-003001						
Analysis:	TPH DRO		Analytical		Mod. 8015B		Prep M	
QC Batch:	37046		Date Ana		2007-05-07		Analyze	
Prep Batch:	32141		Sample Pi	reparation:	2007-05-07		Prepare	ed By: TG
			RL					
Parameter	Flag	ז ק	Result		Units	Ľ	Dilution	R
DRO	· · · · · · · · · · · · · · · · · · ·		<50.0		mg/Kg		1	50.
						Spike	Percent	Recover
Surrogate	Flag	Result	Units		ution A	mount	Recovery	Limits
						1 50		00 0 30
	e 3488 - SB1 @ 3	186 9' #003881	mg/Kg		1	150	124	33.3 - 16
Sample: 12 Analysis: QC Batch:			Analytical Date Anal	l Method:	S 8015B 2007-05-07	150	Prep Meti Analyzed Prepared	hod: S 503 By: MT
Sample: 12 Analysis: QC Batch: Prep Batch:	3488 - SB1 @ 3 TPH GRO 37039 32135	9, #003881	Analytical Date Anal	l Method: lyzed:	S 8015B 2007-05-07	_150	Prep Met Analyzed	hod: S 503 By: MT
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter	3488 - SB1 @ 3 TPH GRO 37039	9, #003881	Analytical Date Anal Sample Pr RL Result	l Method: lyzed:	S 8015B 2007-05-07 2007-05-07 Units		Prep Met Analyzed Prepared Dilution	hod: S 503 B ₃ :: MT B ₃ :: MT R
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter	3488 - SB1 @ 3 TPH GRO 37039 32135	9, #003881	Analytical Date Anal Sample Pr RL	l Method: lyzed:	S 8015B 2007-05-07 2007-05-07		Prep Met Analyzed Prepared	hod: S 503 By: MT By: MT
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO	3488 - SB1 @ 3 TPH GRO 37039 32135	9' #003881 g	Analytical Date Anal Sample Pr RL Result <1.00	l Method: lyzed:	S 8015B 2007-05-07 2007-05-07 Units		Prep Met Analyzed Prepared Dilution	hod: S 503 B ₃ :: MT B ₃ :: MT R
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate	3488 - SB1 @ 3 TPH GRO 37039 32135 Fla ₁	9, #003881	Analytical Date Anal Sample Pr RL Result <1.00 Result	l Method: lyzed: reparation: Units	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution	Spike Amount	Prep Met Analyzed Prepared Dilution 1 Percent Recovery	hod: S 503 By: MT By: MT R: 1.0 Recovery Limits
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Irifluorotolu	23488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT)	9' #003881 g Flag	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894	l Method: lyzed: reparation: Units mg/Kg	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1	Spike Amount 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89	hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16
Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu	3488 - SB1 @ 3 TPH GRO 37039 32135 Fla ₁	9' #003881 g Flag	Analytical Date Anal Sample Pr RL Result <1.00 Result	l Method: lyzed: reparation: Units	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution	Spike Amount	Prep Met Analyzed Prepared Dilution 1 Percent Recovery	hod: S 503 By: MT By: MT R: 1.0 Recovery Limits
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu	3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB	9' #003881 g Flag	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873	l Method: lyzed: reparation: Units mg/Kg	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1	Spike Amount 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89	hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu: 4-Bromofluor Method Bla QC Batch:	3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038	9' #003881 g Flag	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana	l Method: lyzed: reparation: Units mg/Kg mg/Kg	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1	Spike Amount 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89	hod: S 503 By: MT By: MT R: 1.0 Recover, Limits 33.2 - 16 10 - 227
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu: 4-Bromofluor Method Bla QC Batch:	3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC	9' #003881 g Flag	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873	l Method: lyzed: reparation: Units mg/Kg mg/Kg	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1	Spike Amount 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 87	hod: S 503 By: MT By: MT R: 1.0 Recover, Limits 33.2 - 16 10 - 227 ed By: MT
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluor Method Bl: QC Batch: Prep Batch:	3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038	9' #003881 3 Flag) Batch: 37038	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana	l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 24 aration: 24 MI	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 DL	Spike Amount 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 87 87	hod: S 503 By: MT By: MT R: 1.0 Recover, Limits 33.2 - 16 10 - 227 ed By: MT
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bl: QC Batch: Prep Batch: Parameter	3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038	9' #003881 g Flag	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana	l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 2 aration: 2 MI Res	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 DL ult	I Spike Amount 1.00 1.00 Uni	Prep Meti Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 Analyz Prepare	hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 10 - 227 ed By: MT ed By: MT RI
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Parameter Benzene	3488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038	9' #003881 3 Flag) Batch: 37038	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana	l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 24 aration: 24 MI Res <0.003	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 OL ult 333	I Spike Amount 1.00 1.00 Uni mg/	Prep Meti Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 Analyz Preparets Kg	hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 10 - 227 ed By: MT ed By: MT ed By: MT RI 0.0
Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene	23488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038 32135	9' #003881 3 Flag) Batch: 37038	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana	l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 24 aration: 24 MI Res <0.003 <0.003	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 OL ult 333 372	I Spike Amount 1.00 1.00 Uni mg/ mg/	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 Analyz Preparets Kg	hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 10 - 227 ed By: MT ed By: MT RI 0.0 0.0
Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: GRO Surrogate Trifluorotolue 4-Bromofluor Method Bla QC Batch: Prep Batch: Prep Batch: Parameter Benzene	23488 - SB1 @ 3 TPH GRO 37039 32135 Flay ene (TFT) robenzene (4-BFB ank (1) QC 37038 32135	9' #003881 3 Flag) Batch: 37038	Analytical Date Anal Sample Pr RL Result <1.00 Result 0.894 0.873 Date Ana	l Method: lyzed: reparation: Units mg/Kg mg/Kg alyzed: 24 aration: 24 MI Res <0.003	S 8015B 2007-05-07 2007-05-07 Units mg/Kg Dilution 1 1 007-05-07 007-05-07 OL ult 333 372 206	I Spike Amount 1.00 1.00 Uni mg/	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 89 87 87 Analyz Preparets Kg Kg Kg	hod: S 503 By: MT By: MT R: 1.0 Recovery Limits 33.2 - 16 10 - 227 ed By: MT ed By: MT ed By: MT RI 0.0

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iffuorotoluene (TFT) Bromoffuorobenzene (4-BFB) Lethod Blank (1) QC Batch: C Batch: 37039		Wo	ork Order: 7 State M SV			Page Nu	e Number: 9 of 15 Buckeye,NM		
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)		0.777	mg/Kg	1	1.00	78	73.2 - 113		
-Bromoffuorobenzene (4-BFI	B)	0.554	mg/Kg	1	1.00	55	54 - 102		
Method Blank (1) QC	Batch: 37039								
QC Batch: 37039		Date Anal	yzed: 200	07-05-07		Analyze	ed By: MT		
Prep Batch: 32135		QC Prepa	ration: 200	07-05-07		Prepare	ed By: MT		
Parameter	Flag		MDL Result		Uni	ts	RI		
GRO			< 0.459		ng/l	Kg	1		
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits		
Trifluorotoluene (TFT)	r lag	0.993	mg/Kg		Amount 1.00	99	73.2 - 12		
4-Bromofluorobenzene (4-BF)	B)	0.680	mg/Kg	1	1.00	68	51.9 - 110		
QC Batch: 37046	2 Batch: 37046	Date Ana QC Prepa		07-05-07 07-05-07					
QC Batch: 37046 Prep Batch: 32141 Parameter	Batch: 37046 Flag		mation: 20 MDL Result		Uni	Prepar ts	red By: DS		
QC Batch: 37046 Prep Batch: 32141 Parameter			iration: 20 MDL		Uni mg/l	Prepar ts	red By: DS		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO	Flag	QC Prepa	MDL Result <22.3	07-05-07	mg/l Spike	Prepar ts Kg Percent	red By: DS RI 50 Recovery		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag			mation: 20 MDL Result	07-05-07 	mg/l	Prepar ts Kg	red By: DS RI 50 Recovery Limits		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060	Flag Result	QC Prepa Units	MDL Result <22.3 Dilu 1	07-05-07 tion	mg/l Spike Amount	Prepar ts Kg Percent Recovery 136 Analyz	red By: DS RI 50 Recovery Limits 33.3 - 16 ed By: MT		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060	Flag Result 204	QC Prepa Units mg/Kg Date Anal	MDL Result <22.3 Dilu 1	07-05-07	mg/l Spike Amount	Prepar ts Kg Percent Recovery 136	red By: DS RI 50 Recovery Limits 33.3 - 16 ed By: MT		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 Prep Batch: 32152 Parameter	Flag Result 204	QC Prepa Units mg/Kg Date Anal	Nation: 20 MDL Result <22.3 Dilu 1 Nu Nu Nu Nu Result	07-05-07 tion	mg/l Spike Amount 150 Uni	Prepar ts Kg Percent Recovery 136 Analyz Prepare	red By: DS RI 50 Recovery Limits 33.3 - 16 ed By: MT ed By: MT RJ		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 Prep Batch: 32152 Parameter	Flag Result 204 Batch: 37060	QC Prepa Units mg/Kg Date Anal	Nation: 20 MDL Result <22.3 Dilu 1 Nyzed: 20 ration: 20 MDL	07-05-07 tion	mg/l Spike Amount 150	Prepar ts Kg Percent Recovery 136 Analyz Prepare	red By: DS RI 50 Recovery Limits 33.3 - 16 ed By: MT ed By: MT RI		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 Prep Batch: 32152 Parameter GRO	Flag Result 204 Batch: 37060 Flag	QC Prepa Units mg/Kg Date Anal QC Prepa	Nation: 20 MDL Result <22.3 Dilu 1 Note: 20 ration: 20 MDL Result <0.459	07-05-07 tion 07-05-08 07-05-08	mg/l Spike Amount 150 Uni mg/ Spike	Prepar ts Kg Percent Recovery 136 Analyz Prepare ts Kg Percent	ed By: MT ed By: MT ed By: MT ed By: MT		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060 Prep Batch: 32152 Parameter GRO Surrogate	Flag Result 204 Batch: 37060	QC Prepa Units mg/Kg Date Anal QC Prepa Result	Nation: 20 MDL Result <22.3 Dilu 1 Nyzed: 20 ration: 20 MDL Result <0.459 Units	07-05-07 tion 07-05-08 07-05-08 Dilution	mg/l Spike Amount 150 Uni mg/ Spike Amount	Prepar ts Kg Percent Recovery 136 Analyz Prepare ts Kg Percent Recovery	ed By: MT ed By: MT ed By: MT ed By: MT n RECOVERY Limits		
QC Batch: 37046 Prep Batch: 32141 Parameter DRO Surrogate Flag n-Triacontane Method Blank (1) QC QC Batch: 37060	Flag Result 204 Batch: 37060 Flag Flag	QC Prepa Units mg/Kg Date Anal QC Prepa	Nation: 20 MDL Result <22.3 Dilu 1 Note: 20 ration: 20 MDL Result <0.459	07-05-07 tion 07-05-08 07-05-08	mg/l Spike Amount 150 Uni mg/ Spike	Prepar ts Kg Percent Recovery 136 Analyz Prepare ts Kg Percent	ed By: MT ed By: MT ed By: MT ed By: MT		

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Report Date: May 14, State M SWD	2007	Work Order: 7050717 State M SWD	6	ber: 10 of 15 Buckeye,NM
Method Blank (1)	QC Batch: 37168			
QC Batch: 37168		Date Analyzed: 2007-05-11	Analyze	ed By: ER
Prep Batch: 32245		QC Preparation: 2007-05-11	Prepare	ed By: ER
		MDL		
Parameter	Flag	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

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	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.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	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	õ	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

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
GRO	9.20	mg/Kg	1	10.0	< 0.459	92	79.6 - 113
GRO Percent recovery is based on th			1 the spike				79.6 -

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	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.

· · · · · · · · · · · · · · · · · · ·	2007			Order: 7050 tate M SWE					Page Nu		11 of 18 eye,NM
Surrogate		LCS Result	LCSD Result	Units	Dil.	Spil Amo		LCS Rec.	LCSI Rec.		Rec. Limit
Trifluorotoluene (TFT)		1.00	0.950	mg/Kg]	1.0		100	95		1 - 117
4-Bromofluorobenzene	(4-BFB)	0.878	0.825	mg/Kg].	1.0	()	88	82	78.	1 - 118
Laboratory Control	Spike (LC	S-1)									
QC Batch: 37046			Date Analy		-05-07					yzed Bj	
Prep Batch: 32141		(QC Prepara	ation: 2007	-05-07				Prep	ared By	: DS
		LCS				Spike	Ma	atrix			Rec.
Param		Result			A	mount		sult	Rec.		Limit
DRO		292	mg/	Kg 1		250	<:	22.3	117	54	.3 - 149
Percent recovery is base	ed on the sp	ike result. R	PD is base	ed on the spi	ke and	spike du	plicate	result			
		LCSD		Spil		Matrix		R	ec.		RPD
Param		Result		Dil. Amou		Result	Rec.		mit	RPD	Limit
DRO			mg/Kg	1 250		<22.3	103		- 149	12	20
Percent recovery is base	ed on the sp	ike result. R	PD is base	ed on the spi	ke and	spike du	plicate	result			
	LCS	LCSD				Spike	LC	S	LCSD		R.ec.
Surrogate	Result	Result	Unit		A	mount	Re		Rec.		Limit
n-Triacontane	179	168	mg/K	g 1		150	11	9	112	33.	.3 - 164
QC Batch: 37060)ate Analy 2C Prepara		-05-08 -05-08					zed By ared By:	
Prep Batch: 32152		T CS				Colleg	እ <i>ለ</i> .			-	Dav
•		LCS	-	te Dil		Spike		atrix	Ber.	-	Rec.
Param		Result	t Uni			mount	Re	sult	Rec.]	Limit
Param GRO	ed on the sp	Result 9.30	t Uni mg/	Kg 1	A	mount 10.0	Re <0	esult 1.459	93]	Limit
Param GRO	ed on the sp	Result 9.30 vike result. R	t Uni mg/	Kg 1 ed on the spi	A ke and	mount 10.0 spike du	Re <0	esult 1.459 e result	93]	Limit .6 - 113
Param GRO Percent recovery is base Param	ed on the sp	Result 9.30	t Uni mg/ PD is base	Kg 1	A ke and ke l	mount 10.0	Re <0	esult 1.459 e result R	93]	<u>Limit</u> . <u>6 - 113</u> RPD
Prep Batch: 32152 Param GRO Percent recovery is base Param GRO	ed on the sp	Result 9.30 pike result. R LCSD Result	t Uni mg/ PD is base	Kg 1 ed on the spi Spil	A ke and xe 1 int 1	mount 10.0 spike du Matrix	Re <0 plicate	esult 1.459 e result R Li	93 Lec.	79	Limit .6 - 113
Param GRO Percent recovery is base Param		Result 9.30 vike result. R LCSD Result 10.0 1	t Uni mg/ tPD is base Units mg/Kg	Kg 1 ed on the spi Spil Dil. Amon 1 10.	A ke and xe 1 unt 1 0 <	mount 10.0 spike du Matrix Result <0.459	Re <0 plicate Rec. 100	esult 1.459 e result R Li 79.6	93	79 RPD	Limit .6 - 113 RPD Limit
Param GRO Percent recovery is base Param GRO Percent recovery is base		Result 9.30 vike result. R LCSD Result 10.0 vike result. R LCS	t Uni PD is base Units mg/Kg PD is base LCSD	$\begin{array}{c c} Kg & 1 \\ \hline \\ ed \ on \ the \ spi \\ \hline \\ Dil. \ Amon \\ 1 \ 10. \\ ed \ on \ the \ spi \\ \end{array}$	A ke and unt 1 0 <	mount 10.0 spike du Matrix Result <0.459 spike du Spi	Rec. 100 plicate ke	esult 1.459 e result R Li 79.6 e result LCS	93	79 79 RPD 8	Limit <u>6 - 113</u> RPD Limit <u>20</u> Rec.
Param GRO Percent recovery is base Param GRO Percent recovery is base Surrogate	ed on the sp	Result 9.30 vike result. R LCSD Result 10.0 vike result. R LCS Result	t Uni PD is base Units mg/Kg RPD is base LCSD Result	$\begin{array}{c c} Kg & 1 \\ \hline \\ ed \ on \ the \ spi \\ \hline \\ Dil. \ Amon \\ \hline 1 & 10. \\ ed \ on \ the \ spi \\ \hline \\ Units \end{array}$	A ke and mt 1 0 < ike and Dil.	mount 10.0 spike du Matrix Result <0.459 spike du Spi Amo	Rec. 200 plicate 100 plicate ke unt	esult 1.459 e result R Li 79.6 e result LCS Rec.	93 	79 79 <u>RPD</u> 8	Limit 6 - 113 RPD Limit 20 Rec. Limit
Param GRO Percent recovery is base Param GRO Percent recovery is base	ed on the sp	Result 9.30 vike result. R LCSD Result 10.0 vike result. R LCS	t Uni PD is base Units mg/Kg PD is base LCSD	$\begin{array}{c c} Kg & 1 \\ \hline \\ ed \ on \ the \ spi \\ \hline \\ Dil. \ Amon \\ 1 \ 10. \\ ed \ on \ the \ spi \\ \end{array}$	A ke and unt 1 0 <	mount 10.0 spike du Matrix Result <0.459 spike du Spi	Rec. 20 plicate Rec. 100 plicate ke unt 00	esult 1.459 e result R Li 79.6 e result LCS	93	1 79 RPD 8 0 77	Limit <u>6 - 113</u> RPD Limit <u>20</u> Rec.

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Report Date: May 14, 2007 State M SWD				der: 705071 M SWD	7]	Page Ni	imber: Buck	12 of 1 eye,NN
	L	'IS			Spik	e N	latrix			Rec.
Param	Res		Units	Dil.	Amou		tesult	Rec		Limit
Chloride	12		mg/Kg		12.3		0.140	97		0 - 110
									······	
Percent recovery is based on the s	spike result.	RPD 1	s based o	n tne spike	and spike	auphcate	resurt.			
	LCSD			Spike	Matr		$\mathbf{R}_{\boldsymbol{A}}$	ec.		RPD
Param	Result	Unit		Amount	t Resu	lt Rec.		nit	RPD	Limi
Chloride	13.2	mg/I	Kg 1	12.5	< 0.1	40 106	90 -	110	9	20
Percent recovery is based on the s	spike result.	RPD i	s based o	n the spike	and spike	e duplicate	result.			
Matrix Spike (MS-1) Spike	d Sample: 1	23484								
QC Batch: 37038		Data	Analyzed:	2007-05-	-07			Anals	zed By	: MT
Prep Batch: 32135			reparation		-				red By	
		Q() 1 .	i cpai anoi	u. 2007-00	-07			ricpt	100 Dj	
	MS	5			Spike	Ma	trix			Rec.
Param	Rest	ılt	Units	Dil.	Amount	Re	sult	Rec.		Limit
Benzene	0.78	34	mg/Kg	1	1.00	<0.0	0333	78		.6 - 14
Toluene	0.87		mg/Kg	1	1.00	<0.0	0372	88	45	.4 - 13
Ethylbenzene	0.91	17	mg/Kg	1	1.00	<0.0	0206	92	4	8 - 141
Xvlene	3.0	3	mg/Kg	1	3.00	0.3	168	95	45	.3 - 14
Percent recovery is based on the s	spike result.	RPD	is based o	on the spike	and spike	e duplicate	e result.			
	MSD			Spike	Matri	x	R	ec.		RPI
Param	Result	Unite	Dil.	Amount	Resul	t Rec.	Liı	mit	RPD	Limi
Benzene	0.792	mg/K	g 1	1.00	< 0.003	33 79	39.6	- 141	1	20
Toluene	0.887	mg/K	g 1	1.00	< 0.003	72 89	45.4	- 138	1	20
Ethylbenzene	0.950	mg/K	g 1	1.00	< 0.002	06 95	48 -	141	4	20
Xylene	2.83	mg/K	<u>g 1</u>	3.00	0.168	89	45.3	- 142	7	20
Percent recovery is based on the s	spike result.	RPD ;	is based o	on the spike	and spike	e duplicate	e result.			
	М	S	MSD			Spike	MS	MSI)	Rec.
Surrogate	Res	ult :	Result	Units	Dil.	Amount	Rec.	Rec		Limit
Trifluorotoluene (TFT)	0.8	62	0.876	mg/Kg	1	1	86	88	51	.5 - 13
4-Bromofluorobenzene (4-BFB)	1.1	8	1.36	mg/Kg	1	1	118	136	52	.2 - 13
Matrix Spike (MS-1) Spike QC Batch: 37046 Prep Batch: 32141	d Sample: 1	Date	Analyzed Preparatio						yzed B ared B	
n	M		*1 •		Spike		atrix			Rec.
Param DRO	Res		Units	Dil.	Amou		esult	Rec.		Limit
Percent recovery is based on the	20		mg/Kg	1	250		22.3	106	30	.1 - 16
recent recovery is based on the	-	. KPD	is based o	-						
	MSD	T1		Spike	Matri		Re		מממ	RPI
D	Result	Unit	is Dil.	Amount				nit	RPD	Limi
Param DRO	259	mg/I	íg l	250	<22.	3 104	O * -	- 161	2	20

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State M SWD	, 2007			ler: 705071' M SWD	7		Page Ni	umber: 1 Bucke	3 01 13 eye,NM
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.		Rec. imit
n-Triacontane	170	165	mg/Kg	1	150	113	110	33.:	3 - 164
Matrix Spike (MS-: QC Batch: 37168 Prep Batch: 32245	1) Spiked	Sample: 12	3492 Date Analyzed: QC Preparation	2007-05-				lyzed By: bared By:	
rrep baten. 52245			QC r reparation	: 2007-05-	11		r iej.	агео Бу.	En
		MS			Spike	Matrio			Rec.
Param		Resu		Dil.	Amount	Result			imit
Chloride]	430	mg/Kg	50	625	242.78	6 30	75.0	6 - 117
Percent recovery is ba	used on the sp	ike result.	RPD is based or	the spike a	and spike du	olicate res	ult.		
		MSD		Spike	Matrix		Rec.		RPD
Param		Result	Units Dil.	Amount	Result	Rec.	Limit	RPD	Limi
Chloride	2	370	mg/Kg 50	625	242.786	20 7	5.6 - 117	15	20
			101	1011	101-	-	n .		
			ICVs	ICVs	ICVs		Percent		
Domost				Hound	Dorcont	p	anovory	т) oto
aram a	Flag	Units	True Conc.	Found Conc	Percent Becovery		lecovery Limits)ate alvzed
		Units ng/Kg	Conc.	Conc.	Recovery		Limits	Ana	alvzed
Benzene	n	ng/Kg	_	Conc. 0.0897		8		An: 2007	Date alvzed 7-05-0' 7-05-0'
Benzene Foluene	n	ng/Kg ng/Kg	Conc. 0.100	Conc.	Recovery 90	3	Limits 35 - 115	An: 2007 2007	alvzed 7-05-0 7-05-0
Benzene Toluene Ethylbenzene	n n n	ng/Kg	Conc. 0.100 0.100	Conc. 0.0897 0.0905	Recovery 90 90	8 8 8	Limits 85 - 115 85 - 115	An: 2007 2007 2007	alvzed 7-05-0
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¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Dat State M SV	e: May 14, 2 VD	007	Wa	ork Order: 7050 State M SWD	717	Page Nı	mber: 14 of 15 Buckeye,NM
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.926	92	85 - 115	2007-05-07
Standard	(CCV-1)						
QC Batch:	. ,		Date Ana	dyzed: 2007-05	Analy	vzed By: MT	
			CCVs	CCVs	CCVs	Percent.	
			Irue	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recoverv	Limits	Analyzed
GRO	1 105	mg/Kg	1.00	0.937	<u>94</u>	85 - 115	2007-05-07
	·	mg/ng		0.301		00-110	2007-00-07
Standard	(ICV-1)						
QC Batch:	37046		Date An	alyzed: 2007-0	5-07	Ana	yzed By: DS
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
		mark	0-0	054	102	05 115	2007-05-0
DRO		mg/Kg	250	254		85 - 115	
DRO Standard QC Batch:		mg/Kg		234 alyzed: 2007-0			lyzed By: DS
Standard		mg/kg	Date An CCVs	alyzed: 2007-0 CCVs	5-07 CCVs	Ana Percent	lyzed By: DS
Standard QC Batch:	37046		Date An CCVs True	alyzed: 2007-0 CCVs Found	5-07 CCVs Percent	Ana Percent Recovery	lyzed By: DS Date
Standard QC Batch: Param		Units	Date An CCVs True Conc.	alyzed: 2007-0 CCVs Found Conc.	5-07 CCVs Percent Recovery	Ana Percent Recovery Limits	lyzed By: DS Date Analyzed
Standard QC Batch: Param	37046		Date An CCVs True	alyzed: 2007-0 CCVs Found	5-07 CCVs Percent	Ana Percent Recovery	lyzed By: DS Date Analyzed
Standard QC Batch: Param DRO	37046 Flag	Units	Date An CCVs True Conc.	alyzed: 2007-0 CCVs Found Conc.	5-07 CCVs Percent Recovery	Ana Percent Recovery Limits	lyzed By: DS Date
Standard QC Batch: Param DRO Standard	37046 Flag (ICV-1)	Units	Date An CCVs True Conc.	alyzed: 2007-0 CCVs Found Conc. 260	5-07 CCVs Percent Recovery 104	Ana Percent Recovery Limits 85 - 115	lyzed By: DS Date Analyzed
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Standard QC Batch: Param DRO Standard QC Batch:	37046 Flag (ICV-1) 37060	Units mg/Kg	Date An CCVs True Conc. 250 Date Ana ICVs True	alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found	5-07 CCVs Percent Recovery 104 5-08 ICVs Percent	Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery	lyzed By: DS Date <u>Analyzed</u> 2007-05-0' yzed By: MT Date
Standard QC Batch: Param DRO Standard QC Batch: Param	37046 Flag (ICV-1)	Units mg/Kg Units	Date An CCVs True Conc. 250 Date Ana ICVs True Conc.	alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found Conc.	5-07 CCVs Percent Recovery 104 5-08 ICVs Percent Recovery	Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits	lyzed By: DS Date <u>Analyzed</u> 2007-05-0 yzed By: MT Date Analyzed
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Standard QC Batch: Param DRO Standard QC Batch: Param GRO Standard	37046 Flag (ICV-1) 37060 Flag (CCV-1)	Units mg/Kg Units	Date An CCVs True Conc. 250 Date Ana ICVs True Conc. 1.00	alyzed: 2007-0 CCVs Found Conc. 260 alyzed: 2007-0 ICVs Found Conc. 0.934	5-07 CCVs Percent Recovery 104 5-08 ICVs Percent Recovery 93	Ana Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	lyzed By: DS Date <u>Analyzed</u> 2007-05-0' yzed By: MT Date <u>Analyzed</u> 2007-05-0
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Report Dat State M SV	te: May 14, 200 WD)7	Wo	rk Order: 7050 State M SWD	Page Number: 15 of 15 Buckeye,NM		
Standard	(ICV-1)						
QC Batch:	37168		Date Ana	lyzed: 2007-05	-11	Anal	yzed 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 Ana	lyzed: 2007-03	-1]	Anal	yzed By: ER
Damana	T21	The star	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param Chloride	Flag	Units mg/Kg	Conc. 12.5	<u>Conc.</u> 12.2	Recovery 98	Limits 90 - 110	Analyzed 2007-05-11

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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

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

		ŀ	BTEX		MTBE	TPH DRO	TPH GRO
	Benzene Toluene Ethylbenzene Xylene						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



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 F1. Worth, Texas 76132

4 800 • 378 • 1296 2 888 • 588 • 3443 3

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.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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

 ${\bf B}$ - 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.

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Analytical Report

Sample: 125540 - TMW

Analysis: QC Batch:	BTEX		Analytical Met Date Analyzed		S 8021B 2007-05-31		Prep Meth Analyzed 1	
Prep Batch:	37717 32684		Sample Prepar		2007-05-31		Prepared 1	
			\mathbf{RL}					
Parameter	Flag	r	Result		Units		Dilution	RL
Benzene	I 102	<u> </u>	<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
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilutio	n Amoui	nt Recovery	Limits
Trifluorotolue	ene (TFT)	1	0.0585	mg/L	1	0.100	58	78.1 - 112
4-Bromofluor	obenzene (4-BFB)		0.0637	mg/L	1	0.100	64	63.1 - 120
Sample: 12	5540 - TMW							
Analysis:	Chloride (IC)		Analytica	Motho	d: E 300.	n	Prep	Aethod: N/A
QC Batch:	37574		Date Ana		2007-0			ed By: ER
Prep Batch:	32563		Sample P					red By: ER
-			RL	•				
Parameter	Flag		Result		Units		Dilution	\mathbf{RL}
Chloride			108		mg/L		5	0.500
Sample: 12	5540 - TMW							
Analysis:	TPH DRO		Analytical l	Method:	Mod. 80	15B	Prep M	Aethod: N/A
QC Batch:	37556		Date Analy	zed:	2007-05-	26	Analy	ed By: TG
Prep Batch:	32552		Sample Pre	paration	n: 2007-05-	25	Prepai	red By: TG
			RL					
Parameter	Flag		Result		Units		Dilution	RL
DRO			<5.00		mg/L		1	5.00
						Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Di	lution	Amount	Recovery	Limits
n-Triacontan	е	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

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

		\mathbf{RL}					
Parameter Fla	g	Result		Units	Di	lution	RL
GRO	·····	< 0.100		mg/L		1	0.100
					Spike	Percent	Recovery
Surrogate	\mathbf{F} lag	Result	Units	Dilution	Amount	Recovery	Limits
Triffuorotoluene (TFT)	2	0.0603	mg/L	1	0.100	60	72.8 - 107
4-Bromofluorobenzene (4-BFE	3) ³	0.0644	mg/L	1	0.100	64	71 - 110

Method Bla	nk (1)	QC Batch: 37556						
QC Batch: Prep Batch:	37556 32552		Date Analyzed: QC Preparation:	2007-05-26 2007-05-25			nalyzed By: TG repared By: TG	
			M	IDL				
Parameter		Flag	Re	sult		Units	RL	,
DRO			<	1.06		mg/L	5	
					Spike	Percent	Recovery	
Surrogate	·F	'lag Result	Units I	Dilution	Amount	Recover	y Limits	
n-Triacontane	3	26.0	mg/L	1	15.0	173	40.7 - 174	1

Method Blank (1) QC Batch: 37574

QC Batch:	37574		Date Analyzed:	2007-05-25		Analyzed By:	\mathbf{ER}
Prep Batch:	32563		QC Preparation:	2007-05-25		Prepared By:	\mathbf{ER}
			M	IDL			
Parameter		\mathbf{Flag}	Re	sult	Units		\mathbf{RL}
Chloride			<0	.172	mg/L		0.5

Method Blank (1) QC Batch: 37717

QC Batch: 37717 Prep Batch: 32684		Date Anal QC Prepa	-	07-05-31 07-05-31		ed By: KB ed By: KB	
-			MI)T.		-	·
Parameter	Flag		Resi	_	Unit	s	RL
Benzene			< 0.0002	47	mg/l	L	0.001
Toluene			< 0.0002	57	mg/l	L	0.001
Ethylbenzene			< 0.0003	36	mg/l		0.001
Xylene			< 0.0002	.18	mg/.		0.001
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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

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

QC Batch: 37718			Date An	*	2007-05-				lyzed By	
Prep Batch: 32684		•	QC Prep	paration:	2007-05-	31		Prep	oared By	KB
				N	4DL					
Parameter	Fla	.g			esult		Unit	ts		RL
GRO				<0.0	0104		mg/	L		0.1
							Spike	Percent	R.	covery
Surrogate		Flag	Result	Units	s Dib	ition	Amount	Recovery		imits
Irifluorotoluene (TFT)			0.0929	-mg/I		1	0.100	93		3 - 117
4-Bromofluorobenzene (4-BFB)		0.0938	mg/I		1	0.100	94	75	.8 - 110
Laboratory Control S	Spike (LCS	5-1)								
QC Batch: 37556	opino (Doc	•	Date An	alyzed:	2007-05-	26		Ana	lyzed By	: TG
Prep Batch: 32552			QC Prej	paration:	2007-05-	25		Prep	bared By	: TG
		LCS	6			Spike	Matri	x		Rec.
Param		Resu	lt	Units	Dil.	Amount	Resul	lt Rec.		Limit
DRO		22.3	3 1	ng/L	1	25.0	<1.0	6 89	56	.9 - 128
Param DRO		LCSD Result 26.7	Units	Dil.	Spike Amount 25.0	Matrix Result <1.06	Rec.	Rec. Limit 56.9 - 128	<u>RPD</u>	RPD Limit
Percent recovery is base	ed on the sni		mg/L RPD is l	· · · · · · · · · · · · · · · · · · ·					10	20
	-			Subca on	une spine i	-	-			T.
Sumoroto	LCS	LCSD		nits	T):1	Spike	LCS	LCSD		Rec. Limit
Surrogate n-Triacontane	Result	Result 24.9		nus ig/L	Dil.	Amount 15.0	Rec. 153	Rec. 166		.7 - 174
Laboratory Control QC Batch: 37574 Prep Batch: 32563	Spike (LCS	5-1)	Date Ar QC Pre	nalyzed: paration:	2007-05- 2007-05-				dyzed By pared By	
		LC				Spike	Mat			Rec.
Param		Res		Units	Dil.	Amoun				Limit
Chloride		13.		mg/L	1	12.5	<0.		J5	90 - 110
Percent recovery is base	ed on the sp	ike result.	KPD is	based on	the spike	and spike	duplicate r	esuit.		
		LCSD			Spike	Matrix	:	Rec.		RPD
		$D_{}$ 14	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Param Chloride		Result 12.1	mg/L	1	12.5	< 0.172		90 - 110	8	20

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	Date Analyzed: QC Preparation:	Analyzed By: Prepared By:	

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	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.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	\mathbf{Limit}	RPD	Limit
Benzene	0.0971	mg/L	1	0.100	< 0.000247	97	82 - 118	4	20
Toluene	0.0971	$\mathrm{mg/L}$	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.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	\mathbf{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:	$_{\rm KB}$

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	\mathbf{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.

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	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.

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	\mathbf{Result}	Units	Dil.	Amount	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:	\mathbf{TG}
Prep Batch:	32552	QC Preparation:	2007-05-25	Prepared By:	$\mathbf{T}\mathbf{G}$

Report Date: June 4, 200 State M SWD)7			der: 705252 M SWD	24			Page	Number Buck	r: 7 01 9 æye,NM
Param	· · · · · · · · · · · · · · · · · · ·	MS Result	Units	Dil.	Spike Amount	Matr Resu		Rec.		Rec. .imit
DRO		17.5	mg/L	1	25.0	<1.0)6	70	61.9	- 112.2
Percent recovery is based	on the spi	ike result. RPD	is based on	the spike a	and spike d	uplicate	result			
				-		-,				
		MSD	ю.;	Spike	Matrix	n		ec.	nnn	RPD
Param		Result Units		Amount	Result	Rec.		mit	RPD	Limi
DRO		17.7 mg/I		25.0	<1.06	71		112.2	1	20
Percent recovery is based	on the spi	ike result. RPD	is based on	the spike a	and spike d	uplicate	result			
	MS	MSD			Spike	М	S	MSD		Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Re	c.	Rec.		Limit
n-Triacontane	20.9	21.2	mg/L	1	15	13	9	141	40	.7 - 174
QC Batch: 37574 Prep Batch: 32563			Analyzed: Preparation	2007-05- : 2007-05-					yzed By ared By	
		MS			Spike		latrix			Rec.
Param		Result	Units	Dil.	Amount		esult	Ree		Limit
Chloride		125000	mg/L	5000	62500	39	397.4	13	7	10 - 18
		-	is based off	the spike	and spike o	upncate	resur			
Param		MSD Result Uni	ts Dil.	Spike Amount	Matrix Result	Rec.	1	Rec. Limit	RPD	Limi
Chloride		MSD Result Uni 111000 mg/	ts Dil. 'L 5000	Spike Amount 62500	Matrix Result 39397.4	Rec.	1 10	Rec. Limit) - 188	RPD 12	
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718	on the sp	MSD Result Uni 111000 mg/ ike result. RPD Sample: 125592 Date	ts Dil. 'L 5000	Spike Amount 62500 the spike 2007-05	Matrix Result 39397.4 and spike o	Rec.	1 10	Rec. Limit) - 188 t. Anal		Limi 20 7: KB
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718	on the sp	MSD <u>Result Uni</u> 111000 mg/ ike result. RPD Sample: 125592 Date QC I	ts Dil. L 5000 is based on Analyzed:	Spike Amount 62500 the spike 2007-05	Matrix Result 39397.4 and spike o -31 -31	Rec. 1 114 luplicate	I 10 result	Rec. Limit) - 188 t. Anal	12 yzed By	Limi 20 7: KB 7: KB
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718	on the sp	MSD Result Uni 111000 mg/ ike result. RPD Sample: 125592 Date	ts Dil. L 5000 is based on Analyzed:	Spike Amount 62500 the spike 2007-05	Matrix Result 39397.4 and spike o	Rec. 1114 luplicate	1 10	Rec. Limit) - 188 t. Anal	12 yzed By ared By	Limi 20 7: KB
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684	on the sp Spiked	MSD <u>Result</u> <u>Uni</u> <u>111000</u> <u>mg/</u> ike result. RPD Sample: 125592 Date QC I MS	ts Dil. <u>L 5000</u> is based on Analyzed: Preparation	Spike Amount 62500 the spike 2007-05 : 2007-05	Matrix Result 39397.4 and spike of -31 -31 Spike	Rec. 1114 luplicate Mat. R	I result	Rec. Limit) - 188 t. Anal Prep	12 yzed By ared By	Limi 20 7: KB 7: KB 7: KB Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 Param	on the sp Spiked	MSD Result Uni 111000 mg/ ike result. RPD Sample: 125592 Date QC I MS Result 4 5.30	ts Dil. <u>L</u> 5000 is based on Analyzed: Preparation <u>Units</u> <u>mg/L</u>	Spike Amount 62500 the spike 2007-05 : 2007-05 : 2007-05 Dil. 10	Matrix Result 39397.4 and spike of -31 -31 -31 Spike Amoum 10.0	Rec. 1 114 huplicate Magnetic R	I result atrix esult 0.104	Rec. Limit) - 188 t. Anal Prep Rec 53	12 yzed By ared By	Limi 20 7: KB 7: KB 7: KB Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 Param GRO Percent recovery is based	on the sp Spiked	MSD Result Unit 111000 mg/ ike result. RPD Sample: 125592 Date QC I MS Result 4 5.30 bike result. RPD MSD	ts Dil. (L 5000) is based on Analyzed: Preparation Units mg/L is based on	Spike Amount 62500 the spike 2007-05 : 2007-05 : 2007-05 Dil. 10 the spike Spike	Matrix Result 39397.4 and spike of -31 -31 -31 -31 -31 -31 -31 -31 -31 -31	Rec. 1 114 huplicate M t R duplicate	I result atrix esult 0.104 result	Rec. Limit) - 188 t. Anal Prep Rec 53 t. Rec.	12 yzed By ared By	Limi 20 7: KB 7: KB Rec. Limit 55 - 13 RPI
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 Param GRO Percent recovery is based Param	on the sp Spiked on the sp	MSD Result Unit 111000 mg/ ike result. RPD Sample: 125592 Date QC I MS Result 4 5.30 bike result. RPD MSD Result Unit	ts Dil. (L 5000) is based on Analyzed: Preparation Units mg/L is based on its Dil.	Spike Amount 62500 the spike 2007-05 : 2007-05 : 2007-05 Dil. 10 the spike Spike Amount	Matrix Result 39397.4 and spike of -31 -31 -31 -31 -31 -31 -31 -31 -31 -31	Rec. 1 114 huplicate M R duplicate Rec.	I result atrix esult 0.104 result	Rec. Limit) - 188 t. Anal Prep Rec 53 t. Rec. Limit	12 yzed By ared By c.	7: KB 7: KB Limit 55 - 133 RPI Limi
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 Param GRO Percent recovery is based Param GRO	on the sp Spiked on the sp	MSD Result Unit 111000 mg/ ike result. RPD Sample: 125592 Date QC I MS Result 4 5.30 vike result. RPD MSD Result Unit 7.44 mg	ts Dil. L 5000 is based on Analyzed: Preparation Units mg/L is based on its Dil. /L 10	Spike Amount 62500 the spike 2007-05- 2007-05- 2007-05- Dil. 10 the spike Spike Amount 10.0	Matrix Result 39397.4 and spike of -31 -31 -31 -31 -31 -31 -31 -31 -31 -31	Rec. 1 114 huplicate M K C Huplicate Rec. 74	I result 0.104 result I 55	Rec. Limit) - 188 t. Anal Prep Rec 53 t. Rec. Limit - 138	12 yzed By ared By	Limi 20 7: KB 7: KB Rec. Limit 55 - 133 RPL
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 Param GRO Percent recovery is based Param	on the sp Spiked on the sp	MSD Result Unit 111000 mg/ ike result. RPD Sample: 125592 Date QC I MS Result 4 5.30 pike result. RPD MSD Result Unit 7.44 mg pike result. RPD	ts Dil. L 5000 is based on Analyzed: Preparation Units mg/L is based on its Dil. /L 10 is based on	Spike Amount 62500 the spike 2007-05- 2007-05- 2007-05- Dil. 10 the spike Spike Amount 10.0	Matrix Result 39397.4 and spike of -31 -31 -31 -31 -31 -31 -31 -31 -31 -31	Rec. 1 114 huplicate M R duplicate Rec. 74 huplicate	I 10 result 0.104 result I 55 resul	Rec. Limit) - 188 t. Anal Prep Rec 53 t. Rec. Limit - 138 t.	12 yzed By ared By c. RPD 34	Limi 20 7: KB 7: KB Rec. Limit 55 - 133 RPI Limi 20
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 Param GRO Percent recovery is based Param GRO Percent recovery is based	on the sp Spiked on the sp	MSD Result Unit 111000 mg/ ike result. RPD Sample: 125592 Date QC I MS Result 4 5.30 vike result. RPD MSD Result Unit 7.44 mg vike result. RPD MSD	ts Dil. L 5000 is based on Analyzed: Preparation Units mg/L is based on its Dil. /L 10 is based on MSD	Spike Amount 62500 the spike 2007-05- 2007-05- 2007-05- Dil. 10 the spike Amount 10.0 the spike	Matrix Result 39397.4 and spike of -31 -31 -31 -31 -31 -31 -31 -31 -31 -31	Rec. 1 114 huplicate M L R duplicate Rec. 74 huplicate Spike	I 10 result 0.104 result I 55 resul MS	Rec. Limit) - 188 t. Anal Prep Rec 53 t. Rec. Limit - 138 t. MS	12 yzed By ared By 2. RPD 34	Limi 20 7: KB 7: KB Rec. Limit 55 - 133 RPI Limi 20 Rec.
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 Param GRO Percent recovery is based Param GRO Percent recovery is based Surrogate	on the sp Spiked on the sp	MSD Result Unit 111000 mg/ ike result. RPD Sample: 125592 Date QC I MS Result 4 5.30 vike result. RPD MSD Result Unit 7.44 mg vike result. RPD MS Result. RPD	ts Dil. L 5000 is based on Analyzed: Preparation Units mg/L is based on its Dil. /L 10 is based on MSD Result	Spike Amount 62500 the spike 2007-05- 2007-05- 2007-05- 2007-05- Dil. 10 n the spike Amount 10.0 n the spike Units	Matrix Result 39397.4 and spike of -31 -31 -31 -31 -31 -31 -31 -31 -31 -31	Rec. 1 114 luplicate M L R duplicate Rec. 74 duplicate Spike mount	I result atrix esult 0.104 result 1 55 resul MS Rec	Rec. Limit) - 188 t. Anal Prep Rec 53 t. Rec. Limit - 138 t. S. MS . Rec	12 yzed By ared By 2	Limi 20 7: KB 7: KB Rec. Limit 20 Rec. Limit
Chloride Percent recovery is based Matrix Spike (MS-1) QC Batch: 37718 Prep Batch: 32684 Param GRO Percent recovery is based Param GRO Percent recovery is based	on the sp Spiked on the sp	MSD Result Unit 111000 mg/ ike result. RPD Sample: 125592 Date QC I MS Result 4 5.30 vike result. RPD MSD Result Unit 7.44 mg vike result. RPD MSD	ts Dil. L 5000 is based on Analyzed: Preparation Units mg/L is based on its Dil. /L 10 is based on MSD	Spike Amount 62500 the spike 2007-05- 2007-05- 2007-05- Dil. 10 the spike Amount 10.0 the spike	Matrix Result 39397.4 and spike of -31 -31 -31 -31 -31 -31 -31 -31 -31 -31	Rec. 1 114 huplicate M L R duplicate Rec. 74 huplicate Spike	I 10 result 0.104 result I 55 resul MS	Rec. Limit) - 188 t. Anal Prep Rec 53 t. Rec. Limit - 138 t. S. MS . Rec	12 yzed By ared By 2. RPD 34 D 2. 73	Limi 20 7: KB 7: KB Rec. Limit 55 - 13 RPI Limi 20 Rec.

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State M SWI	: June 4, 200 D				rder: 7052 e M SWD	524	·			mber: 8 of 9 Buckeye,NM
natrix spikes	continued		MS	MSD			Spike	MS	MSD	Rec.
Surrogate			Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
	obenzene (4-	BFB) 78	0.677	0.798	mg/L	10	1	68	80	92.3 - 102
Standard (1	(CV-1)									
QC Batch:	37556		Date	Analyzed:	2007-05	-26			Analyz	ed By: TG
			ICVs	IC	CVs	IC	Vs	Percen	ıt	
			True		und	Perc	cent	Recove	ry	Date
Param	Flag	Units	Conc.		onc.	Reco	very	Limit		Analyzed
DRO		mg/L	250	2	.33	9	3	85 - 11	5	2007-05-20
Standard (CCV-1)									
QC Batch:	37556		Date	e Analyzed:	2007-05	-26			Analyz	ed By: TG
			CCVs	С	CVs	CC	Vs	Percer	ıt	
			True	Fo	ound	Perc		Recove	-	Date
Param	Flag	Units	Conc.		onc.	Reco		Limit		Analyzed
DRO		mg/L	250		226	9	0	85 - 11	.5	2007-05-20
Standard (J			D (4 , ,					A 1	
QC Batch:	37574		Date	e Analyzed	: 2007-05	0-25			Analyz	ed By: ER
			ICVs	s]	CVs		CVs	Percei	nt	
_			True		ound		rcent	Recove	-	Date
Param	Flag	Units	Conc		Conc.		overy	Limit		Analyzed
Chloride	- •	mg/L	12.5		12.3		98	90 - 1	10	2007-05-2
Standard (CCV-1)									
QC Batch:	37574		Dat	e Analyzed	: 2007-03	5-25			Analyz	ed By: ER
			CCV	s (CCVs	C	CVs	Perce	nt	
			True		Found		rcent	Recove		Date
Param	Flag	Units	Conc		Conc.		overy	Limit		Analyzed
Chloride	·	mg/L	12.5) 	12.8	1	102	90 - 1	10	2007-05-2
Standard (ICV-1)									

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

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Report Date: June 4, 2007 State M SWD

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: 37	717		Date Analy	zed: 2007-05-3	31	Anal	yzed By: KB
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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 An	alyzed: 2007-0)5-31	Anal	lyzed By: KB
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/L	1.00	0.997	100	85 - 115	2007-05-31

Standard (CCV-1)

QC Batch:	37718		Date An	alyzed: 2007-0	5-31	Ana	lyzed By: KB
			CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		m mg/L	1.00	1.03	103	85 - 115	2007-05-31

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S, Inc. 6701 Aberdeen Avenue, Suite 9 5002 Basin Street, Suite A1 200 East Sunset Rd. Suite E 6015 Harris Pkwy. Suite 110 S, Inc. Lubbock, Texas 79424 Tel (432) 689-6301 Tel (915) 585-3443 Tel (817) 201-5260 Fax (806) 794-1298 Fax (432) 689-6313 Tel (815) 585-3443 Tel (817) 201-5260 s.com 1 (800) 378-1296 Fax (432) 689-6313 1 (888) 588-3443 Tel (817) 201-5260	Phone #: (S'OT) 3976389 ANALYSIS REQUEST		6p) 26 H 9 6010	\ 952 \ 952 \ 954 \ 1 Сс ББ 26 H 26 H 26 H	208 208 2520C 2952⊄ 297 CL 897 CC 297 CL 897 CC 297 CL 297 CL 297 CC 297 CL 297 CC 297 CC 20	MATRIX METHOD SAMPLING CO / D	от Е К		V 5/23 3.0					eived by: Date: Time: LAB USE REMARKS: ONI Y	Date: Time:		$ \boxed{\bigcirc \text{Date: Time:}} \qquad \boxed{\text{Temp } 4^{\circ}\text{C}} \qquad \\ \boxed{\bigcirc \text{D}} \sim 5 \& \mathcal{Z} [1], \forall \bigcirc \mathcal{M} \qquad \\ \\ \text{Log-in-Review} \qquad \\ \hline \hline \\ \hline \hline \hline \\ \hline \hline \hline \hline \\ \hline \hline \hline \hline \hline \\ \hline
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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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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

Report Date: June 20, 2007

Page Number: 2 of 6 Buckeye,NM

]	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)
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	ļ	<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	1	<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

Report Date: June 20, 2007		Work Order: 7052526 Page Nu State M SWD		
Sample: 125559 - S	SB2 @ 30;			
Param	Flag	Result	Units	RL
Chloride		2060	mg/Kg	1.00
Sample: 125560 - S				
Param	Flag	Result	Units	RL
Chloride		43.5	mg/Kg	1.00
Sample: 125561 - S	SB3 @ 1'			
Param	Flag	Result	Units	RL
Chloride		2720	mg/Kg	1.00
Sample: 125562 - S	5B3 @ 3'			
Param	Flag	Result	Units	RL
Chloride		1270	mg/Kg	1.00
	Flag	Result 1400	Units mg/Kg	RL 1.00
Sample: 125563 - S Param Chloride				
Sample: 125564 - 5	SB3 @ 25 [°]			
Param	Flag	Result	Units	RL
Chloride		2530	mg/Kg	1.00
Sample: 125565 - 5	SB3 © 39'			
Param	Flag	Result	Units	RL
Chloride		328	mg/Kg	1.00
Sample: 125566 - 5	SB4 @ 1'			
		Result	Units	BI.
Sample: 125566 - S Param Chloride	5B4 @ 1' Flag	Result 120	Units mg/Kg	RL 1.00
Param	Flag			
Param Chloride	Flag			

Report Date: June 20, 2007		Work Order: 7052526 State M SWD	•		
Sample: 125568 -	SB4 @ 5'				
Param	Flag	Result	Units	\mathbf{RL}	
Chloride		238	mg/Kg	1.00	
Sample: 125569 -	SB4 @ 20'				
Param	Flag	Result	Units	\mathbf{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 - Param Chloride	SB5 @ 3' Flag	Result 882	Units mg/Kg	RL 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	

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Report Date: June 20, 2007		Work Order: 7052526 State M SWD	Page N	umber: 5 of 6 Buckeye,NM
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	0	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 - Param Chloride	Flag	Result 42.8	Units mg/Kg	
Param Chloride	Flag			RL 1.00
Sample: 125582 -	SB7 @ 3'			
Param	Flag	Result	Units	RL
Chloride	- 0	41.6	mg/Kg	1.00
Sample: 125583 -	SB7 @ 5'			
-		Result	Units	RL
Sample: 125583 - Param Chloride	SB7 @ 5' Flag	Result 210	Units mg/Kg	
Param Chloride	Flag			
Param Chloride Sample: 125584 -	Flag SB7 @ 20'	210	mg/Kg	RL 1.00
Param Chloride Sample: 125584 -	Flag			1.00 RL
Param Chloride Sample: 125584 - Param	Flag SB7 @ 20' Flag	210 Result	mg/Kg Units	1.00 RL
Param Chloride Sample: 125584 - Param Chloride	Flag SB7 @ 20' Flag	210 Result	mg/Kg Units	

Report Date: June.20, 2007		Work Order: 7052526 State M SWD	Pag	ge Number: 6 of 6 Buckeye,NM
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 - Param Chloride	SB8 @ 5' Flag	Result 303	Units mg/Kg	RL 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



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

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

800 • 378 • 1296 888 • 588 • 3443

806 • 794 • 1296 915•585•3443 432 • 689 • 6301 817 • 201 • 5260

FAX 806 • 794 • 1298 FAX 915•585•4944 FAX 432 • 689 • 6313

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 State M SWD Project Name: Project Number: State M SWD

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
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
125366	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
125580	SB8 @ 1'	soil	2007-05-23	00:00	2007-05-25
125587	SB8 @ 3	soil	2007-05-22	08:05	2007-05-25

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	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

 $\, E\,$ - The sample contains less than wen 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 8015E

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:BTEXQC Batch:37548Prep Batch:32548			Analytical M Date Analyze Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Meth Analyzed I Prepared I	By: MT
			RL					
Parameter	Flag		Result		Units	Di	lution	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
-			. .			Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	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: QC Batch: Prep Batch:	Chloride (IC) 38310 33169	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-18 2007-06-18	Prep Method: Analyzed By: Prepared By:	ÉŔ
i rop Daton.		RL	2007-00-18		
Parameter	Flag	Result	Units	Dilution	RL
Chloride		2020	mg/Kg	100	1.00

Sample: 125556 - SB2 @ 1'

Analysis: QC Batch: Prep Batch:	TPH DRO 37553 32551		Date Analyze	Analytical Method:Mod. 8015BDate Analyzed:2007-05-26Sample Preparation:2007-05-25		Prep Method: Analyzed By: Prepared By:			
Parameter	Fla	50	RL Result		Unit	ĴS	Dilution	ť	RL
DRO			1430		mg/K	g	1		50.0
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery		overy mits
n-Triacontan	e ²	279	mg/Kg		1	1.50	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

¹Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

²High surrogate recovery due to peak interference.

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Parameter	Flag	$\operatorname{RL}_{\operatorname{Result}}$			Units	D	ilution	RL
GRO			657		mg/Kg		20	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifiuorotoluene (T 4-Bromofluorobenz	'	3	0.680 2.59	mg/Kg mg/Kg	20 20	1.00 1.00	68 259	33.2 - 160 10 - 227

Sample: 125557 - SB2 @ 3'

QC Batch: 37	FEX 546		Analytical M Date Analyze		S 8021B 2007-05-25		Prep Metl Analyzed	
Prep Batch: 32	547		Sample Prep	aration:	2007-05-25		Prepared 2	B_{Y} : MT
			RL					
Parameter	Flag		Result		Units	D	ilution	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
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	(TFT)		0.945	mg/Kg	g 1	1.00	94	52.1 - 131
4-Bromofluorobe	nzene (4-BFB)		0.939	mg/Kg	g1	1.00	94	48.7 - 146

Sample: 125557 - SB2 @ 3'

Analysis: QC Batch: Prep Batch:	Chloride (IC) 38253 33118	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-16 2007-06-16	Prep Method: Analyzed By: Prepared By:	ĒR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		402	mg/Kg	50	1.00

Sample: 125557 - SB2 @ 3'

.

Analysis: QC Batch: Prep Batch:	TPH DRO 37553 32551	Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2007-05-26 2007-05-25	Prep Method: Analyzed By: Prepared By:	ΤĠ
Parameter	Flag	RL Result	Units	Dilution	RL
DRO		288	mg/Kg	1	50.0

³High surrogate recovery due to peak interference.

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Surrogate	Flag	Result	Units	Dib	ution	Spike Amount	Percent Recoverv	Recovery Limits
n-Triacontane	гад	245	mg/Kg]	150	163	62.5 - 164
			6/ ***6					
Sample: 125557	7 - SB2 @ 3'							
Analysis: TP	'H GRO		Analytical	Method:	S 8015B		Prep Metl	hod: S 5033
QC Batch: 375	547		Date Analy		2007-05-25		Analyzed	
Prep Batch: 325	547		Sample Pre	eparation:	2007-05-25		Prepared	By: MT
Parameter	Flag		RL Result		Units]	Dilution	RI
GRO			45.4		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike	Percent	Recovery Limits
Trifluorotoluene (Flag	0.922	mg/Kg		<u>Amount</u> 1.00	Recovery 92	33.2 - 160
4-Bromofiuorober			1.80	mg/Kg	1	1.00	92 180	10 - 227
QC Batch: 375	TEX 541		Analytical M Date Analyze	ed: ;	S 8021B 2007-05-25		Prep Met Analyzed	By: MT
Analysis: BT	TEX 541		Date Analyze Sample Prep	ed: ;				By: MT
Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter	TEX 541	<u>z</u>	Date Analyze Sample Prep RL Result	ed: ;	2007-05-25 2007-05-25 Units	Ľ	Analyzed	By: MT By: MT RJ
Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene	TEX 541 545	2	Date Analyze Sample Prep RL Result <0.0100	ed: ;	2007-05-25 2007-05-25 Units mg/Kg	Ľ	Analyzed Prepared Dilution 1	By: MT By: MT RI 0.010
Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene	TEX 541 545	5	Date Analyze Sample Prepa RL Result <0.0100 <0.0100	ed: ;	2007-05-25 2007-05-25 Units mg/Kg mg/Kg	Ľ	Analyzed Prepared Dilution 1 1	By: MT By: MT RJ 0.010 0.010
Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene	TEX 541 545	<u>z</u>	Date Analyze Sample Prep RL Result <0.0100	ed: ;	2007-05-25 2007-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg	Ľ	Analyzed Prepared Dilution 1	By: MT By: MT 0.010 0.010 0.010
Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene	TEX 541 545	<u>n</u>	Date Analyze Sample Preps RL Result <0.0100 <0.0100 <0.0100	ed: ;	2007-05-25 2007-05-25 Units mg/Kg mg/Kg		Analyzed Prepared Dilution 1 1 1 1 1	By: MT By: MT 0.010 0.010 0.010 0.010
Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Xylene	TEX 541 545		Date Analyze Sample Prep: RL Result <0.0100 <0.0100 <0.0100 <0.0100	ed: ; aration: ;	2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg mg/Kg	Spike	Analyzed Prepared Dilution 1 1 1 1 1 2 Percent	By: MT By: MT 0.010 0.010 0.010 0.010 0.010 0.010
Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	FEX 541 545 Flag	Flag	Date Analyze Sample Prep: RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result	ed: : : : : : : : : : : : : : : : : : :	2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg Dilution	Spike Amount	Analyzed Prepared Dilution 1 1 1 1 1 1 2 Percent Recovery	By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recovery Limits
Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluene (TEX 541 545 Flag (TFT)		Date Analyze Sample Prep: RL Result <0.0100 <0.0100 <0.0100 <0.0100	ed: ; aration: ;	2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg mg/Kg	Spike	Analyzed Prepared Dilution 1 1 1 1 1 2 Percent	By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recover;
Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Irifluorotoluene (4-Bromofluorober	TEX 541 545 Flag (TFT) nzene (4-BFB)		Date Analyze Sample Preps RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974	ed: : : : : : : : : : : : : : : : : : :	2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg mg/Kg Dilution 1	Spike Amount 1.00	Analyzed Prepared Dilution 1 1 1 1 1 9 Percent Recovery 97	By: MT By: MT 0.010 0.010 0.010 0.010 0.010 0.010 Recover, Limits 52.1 - 13
Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Kylene Surrogate Trifluorotoluene (4-Bromofluorober Sample: 125558 Analysis: Ch	TEX 541 545 (TFT) nzene (4-BFB) 8 - SB2 @ 5' doride (IC)		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 0.910 Analytic	units mg/Kg mg/Kg	2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 1 1 Percent Recovery 97 91 Prep M	By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recover; Limits 52.1 - 13 48.7 - 14
Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Frifluorotoluene (4-Bromofluorober Sample: 12555 Analysis: Ch QC Batch: 382	TEX 541 545 Flag (TFT) nzene (4-BFB) 8 - SB2 @ 5'		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 0.910 Analytic Date An	units mg/Kg mg/Kg	2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg Dilution 1 1 1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 97 91	By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recover: Limits 52.1 - 13 48.7 - 14
Analysis: BT QC Batch: 373 Prep Batch: 323 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluene (4-Bromofluorober Sample: 125558 Analysis: Ch QC Batch: 382 Prep Batch: 331	TEX 541 545 (TFT) nzene (4-BFB) 8 - SB2 @ 5' loride (IC) 253 118		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 0.910 Analytic Date An Sample I RL	Units mg/Kg mg/Kg al Method alyzed:	2007-05-25 2007-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 1 :: E 300.0 2007-06- n: 2007-06-	Spike Amount 1.00 1.00 1.00	Analyzed Prepared Dilution 1 1 1 Percent Recovery 97 91 Prep M Analyze Prepare	By: MT By: MT 0.010 0.000 0.000 0.00000000
Analysis: BT QC Batch: 375 Prep Batch: 325 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Frifluorotoluene (4-Bromofluorober Sample: 12555 Analysis: Ch QC Batch: 382	TEX 541 545 (TFT) nzene (4-BFB) 8 - SB2 @ 5' loride (IC) 253		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.974 0.910 Analytic Date An Sample I	Units mg/Kg mg/Kg al Method alyzed:	2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg Dilution 1 1 1	Spike Amount 1.00 1.00 1.00	Analyzed Prepared Dilution 1 1 1 Percent Recovery 97 91 Prep M Analyze	By: MT By: MT 0.010 0.010 0.010 0.010 0.010 Recover; Limits 52.1 - 13 48.7 - 14

Report Date State M SW	:: June 20, 2007 D		Wa	ork Order: State M S			Page Number: 7 of 71 Buckeye,NM		
Sample: 12	5558 - SB2 @	5'							
Analysis:	TPH DRO		Analytical	Method.	Mod. 8015	R	Prep Me	ethod: N/A	
QC Batch:	37553		Date Anal		2007-05-26	D	Analyze		
Prep Batch:	32551		Sample Pr		2007-05-25		Prepare		
1 • • • • • • • • • • • • • • • • • • •	02001		Demini, no 1 1	optar autom.	2007 00 20				
			RL						
Parameter	Fl	ag	Result		Units	I	Dilution	RI	
DRO			<50.0		mg/Kg		1	50.0	
						Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dil	ution	Amount	Recovery	Limits	
n-Triacontan		227	mg/Kg		1	150	151	62.5 - 164	
Sample: 12	:5558 - SB2 @	5'							
Analysis:	TPH GRO		Analytical	Method:	S 8015B		Prep Met	nod: S 503.	
QC Batch:	37543		Date Anal		2007-05-25		Analyzed		
Prep Batch:	32545		Sample Pr				Prepared		
			-						
_			RL						
Parameter	FI	ag	Result		Units		Dilution	RI	
GRO			<1.00		mg/Kg		1	1.0	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotolu			1.02	mg/Kg	1	1.00	102	33.2 - 160	
4-Bromofluo	robenzene (4-BF	'В)	1.01	mg/Kg	1	1.00	101	10 - 227	
Sample: 12 Analysis: QC Batch: Prep Batch:	25559 - SB2 @ BTEX 37541 32545	30'	Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Met Analyzed Prepared	By: MT	
			RL						
Parameter		Flag	Result		Units	I	Dilution	RI	
Benzene			< 0.0100		mg/Kg		1	0.010	
Toluene			< 0.0100		mg/Kg		1	0.010	
Ethylbenzen	e		< 0.0100		mg/Kg		1	0.010	
Xylene		·····	<0.0100		mg/Kg		1	0.010	
			•			Spike	Percent	Recovery	
<u>~</u>		Flag	Result	Units	Dilution		Recovery	Limits	
Surrogate			1.28	mg/Kg	1	1.00	128	52.1 - 13	
Trifluorotolu	iene (TFT) robenzene (4-BF		1.28	mg/Kg	1	1.00	119	48.7 - 14	

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Report Date: June 20, 2007 State M SWD		Work Order: 7(State M SV	Page Number: 8 of 7 Buckeye,NM		
Sample: 12	25559 - 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
		RL .			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		2060	mg/Kg	100	1.00

Sample: 125559 - SB2 @ 30'

Analysis: TPH DRO QC Batch: 37553 Prep Batch: 32551		Analytical M Date Analyze Sample Prepa	zed: 2007-05-26		Analyz	Method:N/Axed By:TGred By:TG	
			RL				
Parameter	F	lag	Result	Uni	its	Dilution	RL
DRO			<50.0	mg/I	íg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	222	mg/Kg	1	150	148	62.5 - 164

Sample: 125559 - SB2 @ 30'

Analysis: QC Batch: Prep Batch:				S 8015B Prep M 2007-05-25 Analyz 2007-05-25 Prepare			By: MT	
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	RL
GR.O			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue 4-Bromofluor	ene (TFT) robenzene (4-BFB)		$\frac{1.35}{1.29}$	mg/Kg mg/Kg	1	1.00 1.00	135 129	33.2 - 160 10 - 227

Sample: 125560 - SB2 @ 50'

Analysis: QC Batch: Prep Batch:	BTEX 37546 32547		Analytical Method: Date Analyzed: Sample Preparation:	S 8021B 2007-05-25 2007-05-25	Prep Method: Analyzed By: Prepared By:	S 5035 MT MT
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzen	e	<u></u>	<0.0100	mg/Kg	<u> </u>	0.0100

continued ...

sample 125560 continued ...

			RL					
Parameter	Flag		Result		Units	Di	lution	RL
Xylene			< 0.0100		mg/Kg		1 .	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			0.910	mg/Kg	1	1.00	91	52.1 - 131
4-Bromofluorobenzene (4-BF	B)		0.841	mg/Kg	1	1.00	84	48.7 - 146

Sample: 125560 - SB2 @ 50'

Analysis: QC Batch: Prep Batch:	Chloride (IC) 38253 33118	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-16 2007-06-16	Prep Method: Analyzed By: Prepared By:	N/A ER ER
T Tep Daten.	30110	RL	2007-00-10		LUIC
Parameter	Flag	Result	Units	Dilution	RL
Chloride		43.5	mg/Kg	5	1.00

Sample: 125560 - SB2 @ 50'

Analysis:	TPH DRO		Analytical Me			Prep Method:		N/A
QC Batch:	37553		Date Analyzed: 2007-05-26		5-26	Analyzed By:		TG
Prep Batch:	32551		Sample Prepa	ration: 2007-0	ation: 2007-05-25		ed By:	ΤG
			\mathbf{RL}					
Parameter	Flag		Result	Uni	its	Dilution		RL
DRO			<50.0	mg/I	mg/Kg			50.0
					Spike	Percent	Reco	overy
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Lin	nits
n-Triacontan	e.	223	mg/Kg	1	150	149	62.5	- 164

Sample: 125560 - SB2 @ 50'

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Analysis:TPH GROQC Batch:37547Prep Batch:32547		Analytical Method: Date Analyzed: Sample Preparation:		S 8015B Prep M 2007-05-25 Analyze 2007-05-25 Prepare			d By: MT	
			RL	•				
Parameter	Flag		Result		Units	I	lution	RL
GRO			<1.00		mg/Kg		1	1.00
				TT 1 .		Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.919	mg/Kg	1	1.00	92	33.2 - 160
4-Bromofluo	robenzene (4-BFB)		0.913	mg/Kg	1	1.00	91	10 - 227

e (4-BFB) B3 @ 1' e (IC)	Date A	zed: 2 paration: 2	S 8021B 2007-05-25 2007-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg Dilution 20 20	Di Spike Amount 1.00 1.00	Prep Meth Analyzed Prepared I 20 20 20 20 20 20 20 20 20 20 20 20 20	By: MT
4 F (4-BFB) B3 @ 1' e (IC)	Date Analy Sample Pre RL Result <0.200 <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A	zed: 2 paration: 2 Units mg/Kg mg/Kg	2007-05-25 2007-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg <u>Dilution</u> 20	Spike Amount 1.00	Analyzed Prepared I 20 20 20 20 Percent Recovery 59	By: MT By: MT 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13
4 F (4-BFB) B3 @ 1' e (IC)	Date Analy Sample Pre RL Result <0.200 <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A	zed: 2 paration: 2 Units mg/Kg mg/Kg	2007-05-25 2007-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg <u>Dilution</u> 20	Spike Amount 1.00	Analyzed Prepared I 20 20 20 20 Percent Recovery 59	By: MT By: MT 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13
4 F (4-BFB) B3 @ 1' e (IC)	Sample Pre RL Result <0.200	Units mg/Kg mg/Kg	2007-05-25 Units mg/Kg mg/Kg mg/Kg 	Spike Amount 1.00	Prepared 1 lution 20 20 20 20 Percent Recovery 59	By: MT RI 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13
4 F (4-BFB) B3 @ 1' e (IC)	RL Result <0.200 <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A	Units mg/Kg mg/Kg	Units mg/Kg mg/Kg mg/Kg Dilution 20	Spike Amount 1.00	lution 20 20 20 20 Percent Recovery 59	RI 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13
4 F (4-BFB) B3 @ 1' e (IC)	Result <0.200	Units mg/Kg mg/Kg	mg/Kg mg/Kg mg/Kg mg/Kg Dilution	Spike Amount 1.00	20 20 20 20 Percent Recovery 59	0.010 0.010 0.010 0.010 Recovery Limits 52.1 - 13
4 F (4-BFB) B3 @ 1' e (IC)	<0.200 <0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A	Units mg/Kg mg/Kg	mg/Kg mg/Kg mg/Kg mg/Kg Dilution	Spike Amount 1.00	20 20 20 20 Percent Recovery 59	0.010 0.010 0.010 0.010 Recovery Limits 52.1 - 13
e (4-BFB) B3 @ 1' e (IC)	<0.200 2.28 3.17 Flag Result 0.588 1.03 Analyt Date A	Units mg/Kg mg/Kg	mg/Kg mg/Kg Dilution 20	Amount 1.00	20 20 20 Percent Recovery 59	0.010 0.010 0.010 Recovery Limits 52.1 - 13
e (4-BFB) B3 @ 1' e (IC)	2.28 3.17 Flag Result 0.588 1.03 Analyt Date A	Units mg/Kg mg/Kg	mg/Kg mg/Kg Dilution 20	Amount 1.00	20 20 Percent Recovery 59	0.010 0.010 Recovery Limits 52.1 - 13
e (4-BFB) B3 @ 1' e (IC)	3.17 Flag Result 0.588 1.03 Analyt Date A	Units mg/Kg mg/Kg	mg/Kg Dilution 20	Amount 1.00	20 Percent Recovery 59	0.010 Recovery Limits 52.1 - 13
e (4-BFB) B3 @ 1' e (IC)	Flag Result 0.588 1.03 Analyt Date A	Units mg/Kg mg/Kg	Dilution 20	Amount 1.00	Percent Recovery 59	Recovery Limits 52.1 - 13
e (4-BFB) B3 @ 1' e (IC)	0.588 1.03 Analyt Date A	mg/Kg mg/Kg	20	Amount 1.00	Recovery 59	Limits 52.1 - 13
e (4-BFB) B3 @ 1' e (IC)	0.588 1.03 Analyt Date A	mg/Kg mg/Kg	20	1.00	59	52.1 - 13
e (4-BFB) B3 @ 1' e (IC)	1.03 Analyt Date A	mg/Kg				
B3 @ 1' e (IC)	Analyt Date A		20	1.00	103	48.7 - 14
e (IC)	Date A	ical Method				
	Sample	nalyzed: Preparatio	2007-06-16		Prep Me Analyze Prepare	ed By: ER
	RL			_		
Flag	Result		Units	<u>I</u>	Dilution	RI
······································	2720		mg/Kg		100	1.0
B3 @ 1'						1
RO	Analytica	al Method:	Mod. 8015B		Prep M	ethod: N/J
	Date Ana	alyzed:	2007-05-26		Analyze	ed By: TG
	Sample F	reparation:	2007-05-25		Prepare	ed By: TG
	DI					
Flag			Tinits	T	Dilution	RJ
1.00	2710		mg/Kg		1	50.
					D	
			2	•	rercent	Recover
Flag Res	sult Units	Til	lution Ar	nount	Recovery	Limits
		RO Analytica Date Ana Sample F RL Flag Result	RO Analytical Method: Date Analyzed: Sample Preparation RL Flag Result 2710	RO Analytical Method: Mod. 8015B Date Analyzed: 2007-05-26 Sample Preparation: 2007-05-25 RL Flag Result Units 2710 mg/Kg	RO Analytical Method: Mod. 8015B Date Analyzed: 2007-05-26 Sample Preparation: 2007-05-25 RL Flag Result Units I	RO Analytical Method: Mod. 8015B Prep Me Date Analyzed: 2007-05-26 Analyzed Sample Preparation: 2007-05-25 Prepare RL Flag Result Units Dilution 2710 mg/Kg 1 Spike Percent

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

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Report Date: June 20, 2007	Work Order: 7052526	Page Number: 11 of 71
State M SWD	State M SWD	Buckeye,NM

sample 125561 continued ...

			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	RL
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRÓ			270		mg/Kg		20	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (T	FT)		0.768	mg/Kg	20	1.00	77	33.2 - 160
4-Bromofluorobenze	ene (4-BFB)		1.38	mg/Kg	20	1.00	138	10 - 227

Sample: 125562 - SB3 @ 3'

Analysis: QC Batch: Prep Batch:	BTEX 37541 32545			Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Meth Analyzed I Prepared I	By: MT
				RL					
Parameter		Flag		Result		Units	D	ilution	\mathbf{RL}
Benzene				< 0.0100		mg/Kg		1	0.0100
Toluene				< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	9			< 0.0100		mg/Kg		1	0.0100
Xylene				< 0.0100		mg/Kg	<u></u>	1	0.0100
							Spike	Percent	Recovery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery.	Limits
Trifluorotolu	ene (TFT)			1.03	mg/K	g 1	1.00	103	52.1 - 131
4-Bromofiuor	robenzene (4-E	BFB)		0.976	mg/K	gl	1.00	98	48.7 - 146

Sample: 125562 - SB3 @ 3'

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

Report Date: June 20. 2007	Work Order: 7052526	Page Number: 12 of 71
State M SWD	State M SWD	Buckeye,NM
sample 125562 continued	· · · · · · · · · · · · · · · · · · ·	

n-Triacontane	1 100	235	mg/Kg	1	150	157	62.5 - 164
Surrogate	Flag	Result	Units	Dilution	${\mathop{ m Spike}}\ {\mathop{ m Amount}}$	Percent Recovery	Recovery Limits
DR()			<50.0	mg/l	(g	1	50.0
Parameter	Fla	£	RL Result	Ūni	ts	Dilution	RL
Parameter	Fla	g	RL Result	Uni	ts	Dilution	RL

Sample: 125562 - SB3 @ 3'

Analysis: QC Batch: Prep Batch:	TPH GRO 37543 32545		Analytical Date Anal Sample Pr		S 8015B 2007-05-25 2007-05-25		Prep Meth Analyzed I Prepared I	By: MT
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			2.26		mg/Kg	· · · · · · · · · · · · · · · · · · ·	1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifiuorotolu	ene (TFT)		1.08	mg/Kg	1	1.00	108	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	10 - 227

Sample: 125563 - SB3 @ 5'

Analysis: BTEX QC Batch: 37541 Prep Batch: 32545		Analytical M Date Analyze Sample Prepa	ed:	S 8021B 2007-05-25 2007-05-25		Prep Meth Analvzed Prepared	By: MT
		RL					
Parameter Flag	5	Result		Units	Di	lution	RL
Benzene		< 0.0100		mg/Kg		1	0.0100
Toluene		< 0.0100		mg/Kg		1	0.0100
Ethylbenzene		< 0.0100		mg/Kg		1	0.010()
Xylene		< 0.0100		mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		1.04	mg/Kg	ς 1	1.00	104	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.976	mg/Kg	g 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:	ĒR
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	\mathbf{ER}

State M SWI	: June 20, 2007 D			rk Order: State M 1			Page Nun	aber: 13 of ' Buckeye,N
			RL					
Parameter	Flag		Result		Units		Dilution	R
Chloride		· · · · · · · · · · · · · · · · · · ·	1400		mg/Kg		100	1.0
			1400		mg/mg	<u></u>		
Sample: 12	5563 - SB3 @ 5'							
Analysis:	TPH DRO		Analytical	Method:	Mod. 8015	в	Prep M	ethod: N/
QC Batch:	37553		Date Analy	zed:	2007-05-26		Analyz	ed By: TG
Prep Batch:	32551		Sample Pre				Prepare	
			RL					
Parameter	Flag		Result		Units		Dilution	R
DRO			<50.0		mg/Kg		1	50
~						Spike	Percent	Recover
Surrogate	Flag	Result	Units	Di	lution	Amount	Recovery	Limits
n-Triacontan	e	233	mg/Kg		1	150	155	62.5 - 16
	37543		Date Analy		2007-05-25		Prep Met Analyzed	By: MT
Prep Batch:	32545		Date Analy Sample Pre RL	vzed:	2007-05-25		Analyzed Prepared	By: MT By: MT
Prep Batch: Parameter			Date Analy Sample Pre RL Result	vzed:	2007-05-25 Units		Analyzed Prepared Dilution	By: MT By: MT R
QC Batch: Prep Batch: Parameter GRO	32545		Date Analy Sample Pre RL	vzed:	2007-05-25		Analyzed Prepared	By: MT By: MT
Prep Batch: Parameter GRO	32545	Elog	Date Analy Sample Pre RL Result 1.11	vzed: eparation	: 2007-05-25 Units mg/Kg	Spike	Analyzed Prepared Dilution J Percent	By: MT By: MT R 1.0 Recover
Prep Batch: Parameter GRO Surrogate	32545 Flag	Flag	Date Analy Sample Pre RL Result 1.11 Result	vzed: eparation Units	: 2007-05-25 Units mg/Kg Dilution	Spike Amount	Analyzed Prepared Dilution J Percent Recovery	By: MT By: MT R 1.0 Recover Limits
Prep Batch: Parameter GRO Surrogate Trifluorotolue	32545 Flag	Flag	Date Analy Sample Pre RL Result 1.11	vzed: eparation	: 2007-05-25 Units mg/Kg Dilution 1	Spike	Analyzed Prepared Dilution J Percent	By: MT By: MT R 1.0 Recover
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12	32545 Flag ene (TFT)		Date Analy Sample Pre RL Result 1.11 Result 1.08	Units mg/Kg mg/Kg	: 2007-05-25 Units mg/Kg Dilution 1	Spike Amount 1.00	Analyzed Prepared Dilution 1 Percent Recovery 108 112	By: MT By: MT Recover Limits 33.2 - 16 10 - 22
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis:	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25		Date Analy Sample Pre RL Result 1.11 Result 1.08 1.12	Units mg/Kg mg/Kg	: 2007-05-25 Units mg/Kg Dilution 1 1	Spike Amount 1.00	Analyzed Prepared Dilution J Percent Recovery 108	By: MT By: MT Recover Limits 33.2 - 16 10 - 22
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch:	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX		Date Analy Sample Pre RL Result 1.11 Result 1.08 1.12 Analytical M	Units mg/Kg mg/Kg ethod:	: 2007-05-25 Units mg/Kg Dilution 1 1 S 8021B	Spike Amount 1.00	Analyzed Prepared Dilution] Percent Recovery 108 112 Prep Met	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch:	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545	,	Date Analy Sample Pre- RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL	Units mg/Kg mg/Kg ethod:	: 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25	Spike Amount 1.00	Analyzed Prepared Dilution 1 Percent Recovery 108 112 Prep Met Analyzed Prepared	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT By: MT
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541	,	Date Analy Sample Pre- RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result	Units mg/Kg mg/Kg ethod:	: 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units	Spike Amount 1.00	Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 500 By: MT By: MT
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545	,	Date Analy Sample Pre- RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100	Units mg/Kg mg/Kg ethod:	: 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg	Spike Amount 1.00	Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 500 By: MT By: MT By: MT
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla	,	Date Analy Sample Pres RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 <0.0100	Units mg/Kg mg/Kg ethod:	: 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg	Spike Amount 1.00	Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution 1 1	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 500 By: MT By: MT By: MT By: MT
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla	,	Date Analy Sample Pre- RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100	Units mg/Kg mg/Kg ethod:	: 2007-05-25 Units mg/Kg Dilution 1 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg	Spike Amount 1.00	Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 500 By: MT By: MT By: MT
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla	۶ ٤	Date Analy Sample Pres RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100	Units mg/Kg mg/Kg ethod: ed: aration:	: 2007-05-25 Units mg/Kg Dilution 1 1 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike Amount 1.00 1.00 Spike	Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 2	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT By: MT By: MT F 0.016 0.016 0.016 0.016
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla	,	Date Analy Sample Pres RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 Result	Units mg/Kg mg/Kg ethod: ed: aration:	2007-05-25 Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike Amount 1.00 1.00 Spike Amount	Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 2 Percent Recovery	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT By: MT By: MT F 0.016 0.016 0.016 0.016 0.016
Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12: Analysis: QC Batch: Prep Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotolue	32545 Flag ene (TFT) obenzene (4-BFB) 5564 - SB3 @ 25 BTEX 37541 32545 Fla	, g Flag	Date Analy Sample Pres RL Result 1.11 Result 1.08 1.12 Analytical M Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100	Units mg/Kg mg/Kg ethod: ed: aration:	2007-05-25 Units mg/Kg Dilution 1 1 2007-05-25 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Spike Amount 1.00 1.00 Spike	Analyzed Prepared Dilution J Percent Recovery 108 112 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 2	By: MT By: MT Recover Limits 33.2 - 16 10 - 22' chod: S 503 By: MT By: MT By: MT F 0.016 0.016 0.016 0.016

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State M SW	: June 20, 2007 D			k Order: 7 State M S			Page Nun	ber: 1 Bucke	
Sample: 12	5564 - SB3 @ 2	5'							
Analysis: QC Batch: Prep Batch:	Chloride (IC) 38253 33118		Date Ana	d Method: dyzed: Preparation	E 300.0 2007-06-1 :: 2007-06-1		Prep M Analyze Prepare	ed By:	N/A ER ER
Parameter	Flag	5	RL Result		Units		Dilution		RL
Chloride			2530		mg/Kg		100		1.00
Sample: 12	5564 - SB3 @ 2	5'							
Analysis: QC Batch: Prep Batch:	TPH DRO 37553 32551		Analytical Date Analy Sample Pre	zed:	Mod. 8015) 2007-05-26 2007-05-25	B	Prep M Analyze Prepare	ed By:	N/A TG TG
*			RL	*			·		
Parameter DRO	Flag	5	Result <50.0		Units mg/Kg		Dilution 1		RL 50.0
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery		covery imits
n-Triacontan	e	212	mg/Kg	- -	1	150	141	62.	5 - 164
n-Triacontan Sample: 12 Analysis: QC Batch:			mg/Kg Analytical Date Analy Sample Pre	Method: vzed:	I S 8015B 2007-05-25 2007-05-25	150	141 Prep Met Analyzed Prepared	bod: By:	
n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch:	e 25564 - SB3 @ 2 TPH GRO 37543 32545	5'	Analytical Date Analy Sample Pre RL	Method: vzed:	S 8015B 2007-05-25 2007-05-25	150	Prep Met Analyzed Prepared	bod: By:	S 5033 MT MT
n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Parameter	e 25564 - SB3 @ 2 TPH GRO 37543	5'	Analytical Date Analy Sample Pre	Method: vzed:	S 8015B 2007-05-25	150	Prep Met Analyzed	bod: By:	S 503; MT MT RI
n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO	e 25564 - SB3 @ 2 TPH GRO 37543 32545	5,	Analytical Date Analy Sample Pre RL Result <1.00	Method: vzed:	S 8015B 2007-05-25 2007-05-25 Units	150 Spike Amount	Prep Met Analyzed Prepared Dilution 1 Percent	bod: By: By: Re	S 5033 MT MT <u>RI</u> 1.00 covery
n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Parameter GRO Surrogate Trifiuorotolu	e 5564 - SB3 @ 2 TPH GRO 37543 32545 Flag	5' 3 Flag	Analytical Date Analy Sample Pre RL Result	Method: vzed: eparation:	S 8015B 2007-05-25 2007-05-25 Units mg/Kg	Spike	Prep Met Analyzed Prepared Dilution 1	bhod: By: By: Re L 33.	S 5033 MT MT RI 1.00
n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo:	e 25564 - SB3 @ 2 TPH GRO 37543 32545 Flag rene (TFT)	5' 5 Flag	Analytical Date Analy Sample Pre RL Result <1.00 Result 1.28	Method: vzed: eparation: Units mg/Kg mg/Kg	S 8015B 2007-05-25 2007-05-25 Units mg/Kg Dilution 1	Spike Amount 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 128	hod: By: By: Re L 33. 10	S 503; MT MT 1.00 covery imits 2 - 160 - 227 S 503
n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo: Sample: 12 Analysis: QC Batch:	e 25564 - SB3 @ 2 TPH GRO 37543 32545 Flag robenzene (4-BFB 25565 - SB3 @ 3 BTEX 37541	5' 5 Flag	Analytical Date Analy Sample Pre RL Result <1.00 Result 1.28 1.24	Method: vzed: eparation: Units mg/Kg mg/Kg ethod:	S 8015B 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1	Spike Amount 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 128 124	hod: By: By: Re L 33. 10	S 503; MT MT 1.00 covery imits 2 - 160 - 227
n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: GRO Surrogate Trifluorotolu 4-Bromofluo: Sample: 12 Analysis: QC Batch: Prep Batch:	e 25564 - SB3 @ 2 TPH GRO 37543 32545 Flag robenzene (4-BFB 25565 - SB3 @ 3 BTEX 37541 32545	5' g Flag) 9'	Analytical Date Analy Sample Pre RL Result <1.00 Result 1.28 1.24 Analytical M Date Analyze Sample Prep RL	Method: vzed: eparation: Units mg/Kg mg/Kg ethod:	S 8015B 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 3 8 8021B 2007-05-25 2007-05-25	Spike Amount 1.00 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 128 124 Prep Met Analyzed Prepared	hod: By: By: Re L 33. 10	S 503; MT MT 1.00 covery imits 2 - 160 - 227 S 503 MT MT
n-Triacontan Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofluo: Sample: 12 Analysis: QC Batch:	e 25564 - SB3 @ 2 TPH GRO 37543 32545 Flag robenzene (4-BFB 25565 - SB3 @ 3 BTEX 37541 32545	5' 5 Flag	Analytical Date Analy Sample Pre RL Result <1.00 Result 1.28 1.24 Analytical M Date Analyze Sample Prep	Method: vzed: eparation: Units mg/Kg mg/Kg ethod:	S 8015B 2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 3 8 8021B 2007-05-25	Spike Amount 1.00 1.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 128 124 Prep Met Analyzed	hod: By: By: Re L 33. 10	S 503; MT MT 1.00 covery imits 2 - 160 - 227 S 503 MT

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continued ...

sample 125565 continued ...

			RL					
Parameter	Flag		Result		Units	Di	lution	\mathbf{RL}
Xylene			< 0.0100		mg/Kg	· · · · · · · · · · · · · · · · · · ·	1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.15	mg/Kg	1	1.00	115	52.1 - 131
4-Bromofiuorobenzene (4-B	FB)		1.06	mg/Kg]	1.00	106	48.7 - 140

Sample: 125565 - SB3 @ 39'

Analysis: QC Batch:	Chloride (IC) 38253	Analytical Method: Date Analyzed:	E 300.0 2007-06-16	Prep Method: Analyzed By:	ÉŔ
Prep Batch:	33118	Sample Preparation:	2007-06-16	Prepared By:	\mathbf{ER}
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		328	mg/Kg	50	1.00

Sample: 125565 - SB3 @ 39'

n-Triacontan	€	232	mg/Kg	1		150	155	62.5	- 164
Surrogate	Flag	Result	Units	Dilut	ion	Spike Amount	Percent Recovery	Li	overy mits
DRO			<50.0		mg/Kg	ç	1		50.0
Parameter	Flag	5	RL Result		Units	S	Dilution		RL
Analysis: QC Batch: Prep Batch:	TPH DRO 37553 32551		Analytical Me Date Analyze Sample Prepa	ed:	Mod. 80 2007-03- 2007-05-	26	Prep M Analyz Prepar		N/A TG TG

Sample: 125565 - SB3 @ 39'

Analysis: QC Batch: Prep Batch:	TPH GRO 37543 32545		Analytical Date Anal Sample Pr		S 8015B 2007-05-25 2007-05-25		Prep Meth Analyzed Prepared 1	By: MT
			RL					
Parameter	Flag		Result		Units	D	ilution	\mathbf{RL}
GRO			<1.00		mg/Kg		1	1.00
_		-	_ .			Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.20	mg/Kg	1	1.00	120	33.2 - 160
4-Bromofluo	robenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	10 - 227

)		Wo	rk Order: State M S			Page Nun	nber: 16 of 71 Buckeye,NM
Sample: 125	5566 - SB4 @ 1'		 					
Analysis:	BTEX		Analytical M	lethod:	S 8021B		Prep Met	hod: S 5035
QC Batch:	37546		Date Analyz	ed: 2	2007-05-25		Analyzed	
Prep Batch:	32547		Sample Prep	aration: 2	2007-05-25		Prepared	By: MT
			\mathbf{RL}					
Parameter	Flag		Result		Units		Dilution	RL
Benzene		<u> </u>	< 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
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount		Limits
Trifluorotolue	(/		0.928	mg/Kg	1	1.00	93	52.1 - 131
4-Bromofluor	obenzene (4-BFB)		0.946	mg/Kg	1	1.00	95	48.7 - 146
Sample: 12: Analysis: QC Batch: Prep Batch:	5566 - SB4 @ 1' Chloride (IC) 38254 33119		Date Ar		e: E 300.0 2007-06-3 2007-06-3		Prep M Analyz Prepare	ed By: ER
Dunganatan			RL		¥ 5 54		Dilution	ът
Parameter Chloride	Flag	·	Result 120		Units mg/Kg		50	RL 1.00
	······································		120		mg/Kg			00.1
Sample: 12!	5566 - SB4 @ 1'		Analytical	Mathody	Mod. 8015	в	Prep M	fethod: N/A
-	חמת עמיד						•	
Analysis:	TPH DRO 37553		Date Anoi	wzed.	2007/2022/202			ed By: TG
Analysis: QC Batch:	37553		Date Anal Sample Pi		2007-05-26			ed By: TG ed By: TG
Analysis: QC Batch:			Sample Pr	lyzed: reparation:			Prepar	
Analysis: QC Batch: Prep Batch:	37553 32551		Sample Pr RL		2007-05-25		Prepar	ed By: TG
Analysis: QC Batch: Prep Batch: Parameter	37553		Sample Pr RL Result		2007-05-25 Units			ed By: TG RL
Analysis: QC Batch: Prep Batch: Parameter	37553 32551		Sample Pr RL		2007-05-25		Prepar	ed By: TG
-	37553 32551	Result	Sample Pr RL Result	reparation:	2007-05-25 Units		Prepar Dilution 1	ed By: TG RL 50.0

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sample 125560	6 continued								
			RL						
Parameter	Flag	<u> </u>	Result		Units	D	ilution		RL
D .			RL		** • .		•1		БŤ
Parameter GRO	Flag		Result 16.4		Units mg/Kg	D	ilution 1		$\frac{\text{RL}}{1.00}$
0110			10.4		mg/ng				
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Li	overy mits
Trifluorotolue 4-Bromofluoro	ne (TFT) obenzene (4-BFB)		0.810 1.23	mg/Kg mg/Kg	1 1	1.00 1.00	81 123		- 160 - 227
Analysis: QC Batch:	5567 - SB4 @ 3' BTEX 37541 32545		Analytical M Date Analyze Sample Prepa	ed: 20	8021B 107-05-25 107-05-25		Prep Metl Analyzed Prepared	By: 1	5 503: MT MT
Parameter	Flag		RL Result		Units	Di	lution		RI
Benzene	1.195	· <u> </u>	<0.0100	<u> </u>	mg/Kg		1		0.010
Toluene			< 0.0100		mg/Kg		1		0.010
Ethylbenzene			< 0.0100		mg/Kg		1		0.010
<u>X</u> ylene			< 0.0100		mg/Kg		1		0.0100
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery		overy; mits
Trifluorotolue	me (TFT)		1.07	mg/Kg	1	1.00	107		- 13
	obenzene (4-BFB)		0.980	mg/Kg	1	1.0()	98	48.7	7 - 14(
Sample: 125 Analysis: QC Batch: Prep Batch:	5567 - SB4 @ 3' Chloride (IC) 38254 33119		Date An	al Method: alyzed: Preparation	E 300.0 2007-06-17 : 2007-06-16		Prep M Analyze Prepare	ed By:	N/J ER ER
D			RL		T 1 ·	.	N1 41 4		10.1
Parameter Chloride	Flag		Result	··· , .	Units mg/Kg	L	Dilution 5		
Chloride Sample: 125 Analysis:	5567 SB4 @ 3' TPH DRO		117 Analytical		mg/Kg Mod. 8015B		5 Prep M	ethod:	N/
QC Batch:	37553		Date Anal	•	2007-05-26		Analyze		TG
Prep Batch:	32551		Sample Pr	eparation:	2007-05-25	continu	Prepare	ag Bû:	ΤG
						55 <i>100</i> 010			

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sample 125567 continued		

RLFlag Result Units Dilution RLParameter RLDilution RLParameter Flag Result Units DRO mg/Kg 50.0 <50.0 1 Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits n-Triacontane 240 150 160 62.5 - 164 mg/Kg 1

Sample: 125567 - SB4 @ 3'

Analysis: QC Batch: Prep Batch:	TPH GRO 37543 32545		Analytical Date Anal Sample Pr	yzed:	S 8015B 2007-05-25 2007-05-25		Prep Meth Analyzed 1 Prepared 1	By: MT
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	\mathbf{RL}
GRO			<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.13	mg/Kg	1	1.00	113	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	10 - 227

Sample: 125568 - SB4 @ 5'

Analysis: QC Batch: Prep Batch:	BTEX 37541 32545		Analytical M Date Analyze Sample Prepa	ed:	S 8021B 2007-05-25 2007-05-25		Prep Metho Analyzed E Prepared E	By: MT
			RL					
Parameter	Flag		Result		Units	Di	lution	RL
Benzene	<u> </u>		< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	<u>.</u>		< 0.0100		m mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		1.07	mg/Kg	g 1	1.00	107	52.1 - 131
4-Bromofluor	robenzene (4-BFB)		0.980	mg/K	g 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:	\mathbf{ER}

State M SW	:: June 20, 2 D	:007			k Order: State M S			Page Nun	aber: 19 of Buckeye,N
				\mathbf{RL}					
Parameter		Flag		Result		Units		Dilution	R
Chloride				238		mg/Kg	···· ··· ···	50	1.(
Sample: 12	5568 - SB4	4 @ 5'							
Analysis:	TPH DRO			Analytical	Method:	Mod. 8015	ъ́В	Prep M	ethod: N/
QC Batch:	37553			Date Analy		2007-05-20		Analyz	
Prep Batch:	32551			Sample Pre		2007-05-25)	Prepare	
				RL					
Parameter		Flag		Result		Units		Dilution	R
DRO			· ·	<50.0		mg/Kg		1	50
Curro mode	T.)I		Demili	T]		uti or	Spike	Percent	Recover
Surrogate n-Triacontan	Fla	1 <u>5</u>	Result 232	Units mg/Kg	D1	ution 1	Amount 150	Recovery 155	Limits 62.5 - 16
Sample: 12	5568 - SB4	4@5'							
Analysis:	TPH GRC)		Analytical	Method:	S 8015B		Prep Met	hod: S 503
QC Batch:	37543			Date Analy	zed:	2007-05-25	j	Analyzed	
Prep Batch:	32545			Sample Pre	eparation:	2007-05-25)	Prepared	By: MT
-	32545			RL	eparation:		5		
Parameter	32545	Flag		RL Result	eparation:	Units	5	Dilution	R
Parameter	32545	Flag		RL	eparation:		; 		
Parameter GRO	32545	Flag		RL Result <1.00		Units mg/Kg	Spike	Dilution 1 Percent	Recover
Parameter GRO Surrogate		Flag	Flag	RL Result <1.00 Result	Units	Units mg/Kg Dilution	Spike Amount	Dilution 1 Percent Recovery	Recover Limits
Prep Batch: Parameter GRO Surrogate Trifluorotolu 4-Bromofiuor	ene (TFT)		Flag	RL Result <1.00		Units mg/Kg	Spike	Dilution 1 Percent	Recover
Parameter GRO Surrogate Trifluorotoluo 4-Bromofiuor	ene (TFT) robenzene (4	4-BFB)		RL Result <1.00 Result 1.15	Units mg/Kg	Units mg/Kg Dilution 1	Spike Amount 1.00	Dilution 1 Percent Recovery 115	Recover Limits 33.2 - 10
Parameter GRO Surrogate Trifluorotoluo 4-Bromofiuor Sample: 12	ene (TFT) robenzene (4 25569 - SB4	4-BFB)		RL Result <1.00 Result 1.15 1.06	Units mg/Kg mg/Kg	Units mg/Kg Dilution 1 1	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106	Recover Limits 33.2 - 10 10 - 22
Parameter GRO Surrogate Trifluorotoluo 4-Bromofiuor Sample: 12 Analysis:	ene (TFT) robenzene (4 25569 - SB4 BTEX	4-BFB)		RL Result <1.00 Result 1.15 1.06 Analytical M	Units mg/Kg mg/Kg ethod:	Units mg/Kg Dilution 1 1 S 8021B	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106 Prep Met	Recover Limits 33.2 - 10 10 - 22
Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 Analysis: QC Batch:	ene (TFT) robenzene (4 :5569 - SB4 BTEX 37541	4-BFB)		RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze	Units mg/Kg mg/Kg ethod: ed:	Units mg/Kg Dilution 1 1 S 8021B 2007-05-25	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106 Prep Met Analyzed	Recover Limits 33.2 - 10 10 - 22
Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 Analysis: QC Batch:	ene (TFT) robenzene (4 25569 - SB4 BTEX	4-BFB)		RL Result <1.00 Result 1.15 1.06 Analytical M	Units mg/Kg mg/Kg ethod: ed:	Units mg/Kg Dilution 1 1 S 8021B	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106 Prep Met	Recover Limits 33.2 - 10 10 - 22
Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 Analysis: QC Batch: Prep Batch:	ene (TFT) robenzene (4 :5569 - SB4 BTEX 37541	4-BFB) 4 @ 20 [.]		RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL	Units mg/Kg mg/Kg ethod: ed:	Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106 Prep Mer Analyzed Prepared	Recover Limits 33.2 - 10 10 - 22 thod: S 50: By: MT By: MT
Parameter GRO Surrogate Trifluorotolue 4-Bromofluor Sample: 12 Analysis: QC Batch: Prep Batch: Parameter	ene (TFT) robenzene (4 :5569 - SB4 BTEX 37541	4-BFB)		RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep.	Units mg/Kg mg/Kg ethod: ed:	Units mg/Kg Dilution 1 1 S 8021B 2007-05-25	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106 Prep Met Analyzed	Recover Limits 33.2 - 10 10 - 22
Parameter GRO Surrogate Trifluorotolue 4-Bromofiuor Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene	ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545	4-BFB) 4 @ 20 [.]		RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100	Units mg/Kg mg/Kg ethod: ed:	Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1	Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014
Parameter GRO Surrogate Trifiuorotolue 4-Bromofiuor Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545	4-BFB) 4 @ 20 [.]		RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100 <0.0100	Units mg/Kg mg/Kg ethod: ed:	Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1 1 1	Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014 0.014
Parameter GRO Surrogate Trifluorotolue	ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545	4-BFB) 4 @ 20 [.]		RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100	Units mg/Kg mg/Kg ethod: ed:	Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg	Spike Amount 1.00	Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1	Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014
Parameter GRO Surrogate Trifluorotolue 4-Bromofiuor Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene Xylene	ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545	4-BFB) 4 @ 20 [.]		RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100 <0.0100	Units mg/Kg mg/Kg ethod: ed: aration:	Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg	Spike 1.00 1.00 Spike	Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 Percent	Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014 0.014 0.014 0.014
Parameter GRO Surrogate Trifluorotolue 4-Bromofiuor Sample: 12 Analysis: QC Batch: Prep Batch: Prep Batch: Parameter Benzene Toluene Ethylbenzene	ene (TFT) robenzene (4 25569 - SB4 BTEX 37541 32545 e	4-BFB) 4 @ 20 [.]		RL Result <1.00 Result 1.15 1.06 Analytical M Date Analyze Sample Prep. RL Result <0.0100 <0.0100 <0.0100	Units mg/Kg mg/Kg ethod: ed:	Units mg/Kg Dilution 1 1 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg	Spike 1.00 1.00 Spike	Dilution 1 Percent Recovery 115 106 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 Percent	Recover Limits 33.2 - 10 10 - 22 thod: S 500 By: MT By: MT By: MT F 0.014 0.014 0.014

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Sample: 12	5569 - SB4 @ 20'							
Analysis: QC Batch: Prep Batch:	Chloride (1C) 38254 33119		Analytic Date An Sample F	alyzed:	2007-06-		Prep M Analyze Prepare	ed By: ER
_			RL				· · ·	
Parameter Chloride	Flag		Result 3310		Units mg/Kg		Dilution 100	RL 1.00
Sample: 12	5569 - SB4 @ 20'							
Analysis: QC Batch: Prep Batch:	TPH DRO 37553 32551		Analytical Date Analy Sample Pre	vzed:	Mod. 8013 2007-05-26 : 2007-05-23)	Prep M Analyz Prepare	ed By: TG
			RL					
Parameter	Flag		Result		Units		Dilution	RL
DRO	<u></u>		<50.0		mg/Kg].	50.0
Surrogate	Flag	Result	Units	Di	lution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan		248	mg/Kg		1	150	165	62.5 - 164
Sample: 12	5569 - SB4 @ 20'							
Analysis:	TPH GRO	,	Analytical	Method:	S 8015B		Prep Met	
QC Batch: Prep Batch:	37543 32545		Date Analy Sample Pre		2007-05-23 : 2007-05-23		Analyzed Prepared	•
	01010		-	cpta abron	. 2001 00 20	, ,	1 roporod	
Parameter	Flag		RL Result		Units		Dilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilutior	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue			1.26	mg/Kg		1.00	120	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.14	mg/Kg		1.00	114	10 - 227
Sample: 12	5570 - SB4 @ 39'							
Analysis:	BTEX		Analytical M	ethod:	S 8021B		Prep Met	thod: S 5035
QC Batch:	37546		Date Analyze	ed:	2007-05-25		Analyzed	By: MT
Prep Batch:	32547		Sample Prepa	aration:	2007-05-25		Prepared	By: MT

	Sample Preparation:	2007-05-25	Prepared By:	
	RL			
Flag	Result	Units	Dilution	\mathbf{RL}
	< 0.0100	mg/Kg	1	0.0100
	< 0.0100	mg/Kg	1	0.0100
	< 0.0100	mg/Kg	1	0.0100
	Flag	Sample Preparation: RL Flag Result <0.0100 <0.0100	Sample Preparation: 2007-05-25 RL Flag Result Units <0.0100 mg/Kg <0.0100 mg/Kg	Sample Preparation:2007-05-25Prepared By:RLDilutionFlagResultUnitsDilution<0.0100

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

continued ...

sample 125570 continued

			RL					
Parameter	Flag		Result		Units	Di	lution	RL
Xylene			< 0.0100		mg/Kg]	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery:	Limits
Trifluorotoluene (TFT)			0.964	mg/Kg	<u>]</u>	1.00	96	52.1 - 131
4-Bromofluorobenzene (4-BI	FB)		0.892	mg/Kg	1	1.00	89	48.7 - 146

Sample: 125570 - SB4 @ 39'

Analysis: QC Batch: Prep Batch:	Chloride (IC) 38254 33119	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-17 2007-06-16	Prep Method: Analyzed By: Prepared By:	'
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		144	mg/Kg	5	1.00

Sample: 125570 - SB4 @ 39'

Analysis: QC Batch: Prep Batch:	TPH DRO 37554 32551		Analytical M Date Analyze Sample Prepa	ed: 200'	l. 8015B 7-05-26 7-05-25		fethod: N/A wed By: TG red By: TG
			RL				
Parameter	\mathbf{Fl}	ag	Result	ו	Units	Dilution	\mathbf{RL}
DRO			<50.0	m	g/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan	e	232	mg/Kg	1	150	155	62.5 - 164

Sample: 125570 - SB4 @ 39'

Analysis: QC Batch: Prep Batch:	TPH GRO 37547 32547		Analytical Date Anal Sample Pr	vzed:	S 8015B 2007-05-25 2007-05-25		Prep Metł Analyzed Prepared 1	By: MT
	·		RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg]	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.02	mg/Kg	1	1.00	102	33.2 - 160
	obenzene (4-BFB)		0.972	mg/Kg	1	1.00	97	10 - 227

Analytical Me Date Analyzeo Sample Prepar RL Result <0.0100 <0.0100 <0.0100 <0.0100 ag Result	l: 20 ration: 20	8021B)07-05-25)07-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg]	Prep Meth Analyzed Prepared Dilution 1 1 1 1	By: MT By: MT 0.01 0.03 0.03
Date Analyzed Sample Prepar RL Result <0.0100 <0.0100 <0.0100 <0.0100	l: 20 ration: 20	007-05-25 007-05-25 Units mg/Kg mg/Kg mg/Kg		Analyzed Prepared Dilution 1 1 1	By: MT By: MT 0.01 0.01 0.01
Date Analyzed Sample Prepar RL Result <0.0100 <0.0100 <0.0100 <0.0100	l: 20 ration: 20	007-05-25 007-05-25 Units mg/Kg mg/Kg mg/Kg		Analyzed Prepared Dilution 1 1 1	By: MT By: MT
Sample Prepar RL Result <0.0100 <0.0100 <0.0100 <0.0100 ag Result	ation: 20	007-05-25 Units mg/Kg mg/Kg mg/Kg		Prepared Dilution 1 1 1	By: MT F 0.01 0.01 0.01
RL Result <0.0100 <0.0100 <0.0100 <0.0100 ag Result		Units mg/Kg mg/Kg mg/Kg		Dilution 1 1 1	F 0.01 0.01 0.01
Result <0.0100 <0.0100 <0.0100 <0.0100 ag Result		mg/Kg mg/Kg mg/Kg]	1 1 1	0.01 0.01 0.01
<0.0100 <0.0100 <0.0100 <0.0100 ag Result		mg/Kg mg/Kg mg/Kg]	1 1 1	
<0.0100 <0.0100 <0.0100 ag Result		mg/Kg mg/Kg		1 1	0.01 0.01
<0.0100 <0.0100 ag Result		mg/Kg		Ĩ	0.01
<0.0100 ag Result			<u> </u>		
ag Result		mg/Kg		1	
					0.01
			Spike	Percent	Recover
	Units	Dilution	Amount	Recovery	Limits
0.949	mg/Kg	1	1.00	95	52.1 - 1
0.866	mg/Kg	1	1.00	87	48.7 - 14
Date Ana	lyzed:			Analyze Prepare	ed By: El
RL Popult		Timito		Dilution	F
					1.
Analytical M	Method:	Mod 8015B		Pren M	ethod: N/
		2007-05-26		Analyze	
Date Analy:	zed:	2007-03-20			JUDV. IV
Date Analy: Sample Prej		2007-05-25		Prepare	
Sample Prej RL		2007-05-25		Prepare	d By: TO
Sample Prep RL Result		2007-05-25 Units		Prepare	ed By: TO
Sample Prej RL		2007-05-25		Prepare	d By: TO
Sample Prep RL Result <50.0		2007-05-25 Units mg/Kg	Spike	Prepare Dilution 1 Percent	ed By: TC F 50 Recover
Sample Prep RL Result		2007-05-25 Units mg/Kg tion A	Spike mount 150	Prepare Dilution	ed By: TC
	Date Ana Sample P RL Result 1210	RL Result	Date Analyzed: 2007-06-17 Sample Preparation: 2007-06-16 RL Result Units 1210 mg/Kg	Date Analyzed: 2007-06-17 Sample Preparation: 2007-06-16 RL Result Units 1210 mg/Kg	Date Analyzed:2007-06-17AnalyzedSample Preparation:2007-06-16PrepareRLResultUnitsDilution1210mg/Kg100

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sample 125571 continued ...

m			RL			-		
Parameter	Flag		Result		Units	D	ilution	RL
			\mathbf{RL}					
Parameter	Flag		Result		Units	. D	lution	RL
GRO			<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TF	T)		1.02	mg/Kg	1	1.00	102	33.2 - 160
4-Bromofluorobenzer	ne (4-BFB)		0.944	mg/Kg	1	1.00	94 .	10 - 227

Sample: 125572 - SB5 @ 3'

Analysis: BTEX QC Batch: 37546 Prep Batch: 32547		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Meth Analyzed Prepared	By: MT
110, 2000, 0201			di d	2001 00 20		i roparoa.	Dj. MI
		RL					
Parameter Flag		Result		Units	Di	lution	RL
Benzene		< 0.0100		mg/Kg		1	0.0100
Toluene		< 0.0100		mg/Kg		1	0.0100
Ethylbenzene		< 0.0100		mg/Kg		1	0.0100
Xylene		<0.0100		mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery.	Limits
Trifluorotoluene (TFT)		1.11	mg/Kg	g 1	1.00	111	52.1 - 131
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	g 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.
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
$\overline{\mathrm{C}}\mathrm{hloride}$		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:	$\mathbf{T}\mathbf{G}$

continued ...

sample 125572 continued

-			RL	~			• • •
Parameter	Flag		Result	Uni	ts	Dilution	RL
			RL				
Parameter	Flag		Result	Uni	ts	Dilution	RL
DRO			<50.0	mg/I	(g	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery.	Limits
n-Triacontane		238	mg/Kg	1	150	159	62.5 - 164

Sample: 125572 - SB5 @ 3'

Analysis: QC Batch: Prep Batch:	TPH GRO 37547 32547		Analytical Date Anal Sample Pr		S 8015B 2007-05-25 2007-05-25		Prep Meth Analyzed Prepared 1	By: MT
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	\mathbf{RL}
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifiuorotolu	ene (TFT)	., .,	1.19	mg/Kg	1	1.00	119	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.12	mg/Kg	1	1.00	112	10 - 227

Sample: 125573 - SB5 @ 5'

Analysis: BTEX QC Batch: 37546 Prep Batch: 32547		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Metho Analyzed B Prepared B	y: MT
		RL			4		
Parameter Flag		Result		Units	Di	lution	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]	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)		0.940	mg/Kg	g 1	1.00	94	52.1 - 131
4-Bromofluorobenzene (4-BFB)		0.862	mg/Kg	g 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:	\mathbf{ER}

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			RL					
Parameter	Flag	_	Result		Units		Dilution	RL
Chloride			1490		mg/Kg		100	1.00
Sample: 125573	- SB5 @ 5'							
-	I DRO		Analytical	Method:	Mod. 8015	в	Prep M	lethod: N/A
QC Batch: 3755	54		Date Analy	vzed:	2007-05-26		Analyz	ed By: TG
Prep Batch: 3255	51		Sample Pre	eparation:	2007-05-25		Prepare	ed By: TG
			\mathbf{RL}					
Parameter	Flag		Result		Units		Dilution	RL
DR.O			< 50.0		mg/Kg		1	50.0
Surrogate	Flag	Result	Units	Dib	ution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		233	mg/Kg		1	150	155	62.5 - 164
Applycic TPF	I CRO		Applatical	Mothody	C 2015D		Prop Mot	hod \$ \$025
QC Batch: 3754			Analytical Date Analy Sample Pr	vzed:	S 8015B 2007-05-25 2007-05-25		Prep Met Analyzed Prepared	By: MT
•	17		Date Analy Sample Pr	vzed:	2007-05-25			By: MT
QC Batch: 3754 Prep Batch: 3254	17 17		Date Analy Sample Pr RL	vzed:	2007-05-25 2007-05-25		Analyzed Prepared	By: MT By: MT
QC Batch: 3754 Prep Batch: 3254 Parameter	17		Date Analy Sample Pro RL Result	vzed:	2007-05-25 2007-05-25 Units		Analyzed	By: MT By: MT RL
QC Batch: 3754 Prep Batch: 3254 Parameter GRO	17 17		Date Analy Sample Pr RL	vzed:	2007-05-25 2007-05-25		Analyzed Prepared Dilution 1 Percent	By: MT By: MT RL
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate	17 17 Flag	Flag	Date Analy Sample Pr RL Result <1.00 Result	vzed: eparation: Units	2007-05-25 2007-05-25 Units	Spike Amount	Analyzed Prepared Dilution 1 Percent Recovery	By: MT By: MT RL 1.00 Recovery Limits
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (7	17 17 Flag IFT)	Flag	Date Analy Sample Pro RL Result <1.00 Result 1.00	vzed: eparation: Units mg/Kg	2007-05-25 2007-05-25 Units mg/Kg Dilution 1	Spike Amount 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (7	17 17 Flag IFT)	Flag	Date Analy Sample Pr RL Result <1.00 Result	vzed: eparation: Units	2007-05-25 2007-05-25 Units mg/Kg Dilution	Spike Amount	Analyzed Prepared Dilution 1 Percent Recovery	By: MT By: MT RL 1.00 Recovery Limits
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (7 4-Bromofluorobenz	17 17 Flag IFT) zene (4-BFB)	Flag	Date Analy Sample Pro RL Result <1.00 Result 1.00	vzed: eparation: Units mg/Kg	2007-05-25 2007-05-25 Units mg/Kg Dilution 1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160
QC Batch: 3754 Prep Batch: 3254 Parameter GRO	17 17 17 17 17 17 17 17 17 17 17 17 17 1	Flag	Date Analy Sample Pro- RL Result <1.00 Result 1.00 0.937	vzed: eparation: Units mg/Kg mg/Kg	2007-05-25 2007-05-25 Units mg/Kg Dilution 1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754	17 17 17 17 17 17 17 17 17 17 17 17 17 1	Flag	Date Analy Sample Pro RL Result (1.00 Result 1.00 0.937 Analytical M Date Analyz	vzed: eparation: Units mg/Kg mg/Kg ed:	2007-05-25 2007-05-25 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 1 1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754	17 17 17 17 17 17 17 17 18 18 17 17 17 18 17 17 17 17 17 17 17 17 17 17 17 17 17	Flag	Date Analy Sample Pro RL Result (1.00 0.937 Analytical M	vzed: eparation: Units mg/Kg mg/Kg ed:	2007-05-25 2007-05-25 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 1 1 S 8021B	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofluorobenz Sample: 125574 Analysis: BTF QC Batch: 3754 Prep Batch: 3254	17 17 17 17 17 17 17 17 17 17 17 17 17 1		Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL	vzed: eparation: Units mg/Kg mg/Kg ed:	2007-05-25 2007-05-25 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 1 1 3 S 8021B 2007-05-25 2007-05-25	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter	17 17 17 17 17 17 17 17 18 18 17 17 17 18 17 17 17 17 17 17 17 17 17 17 17 17 17		Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result	vzed: eparation: Units mg/Kg mg/Kg ed:	2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter Benzene	17 17 17 17 17 17 17 17 17 17 17 17 17 1		Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100	vzed: eparation: Units mg/Kg mg/Kg ed:	2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution 1	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT RL 0.0100
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter Benzene Toluene	17 17 17 17 17 17 17 17 17 17 17 17 17 1		Date Analy Sample Pro- RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100 <0.0100	vzed: eparation: Units mg/Kg mg/Kg ed:	2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution 1 1	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT RL 0.0100 0.0100
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter	17 17 17 17 17 17 17 17 17 17 17 17 17 1		Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100	vzed: eparation: Units mg/Kg mg/Kg ed:	2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT RL 0.0100 0.0100 0.0100
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter Benzene Toluene Ethylbenzene Xylene	17 17 17 17 17 17 17 17 17 17 17 17 17 1		Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100 <0.0100 <0.0100	vzed: eparation: Units mg/Kg mg/Kg fethod: ed: aration:	2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 3 5 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg mg/Kg	Spike Amount 1.00 1.00 Spike	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 Percent	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT RL 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100
QC Batch: 3754 Prep Batch: 3254 Parameter GRO Surrogate Trifluorotoluene (T 4-Bromofiuorobenz Sample: 125574 Analysis: BTE QC Batch: 3754 Prep Batch: 3254 Parameter Benzene Toluene Ethylbenzene	17 17 17 17 17 17 17 17 16 17 17 18 17 17		Date Analy Sample Pro RL Result (1.00 0.937 Analytical M Date Analyze Sample Prep RL Result <0.0100 <0.0100 <0.0100	vzed: eparation: Units mg/Kg mg/Kg ed:	2007-05-25 2007-05-25 Units mg/Kg Dilution 1 1 1 5 8021B 2007-05-25 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg	Spike Amount 1.00 1.00 Spike	Analyzed Prepared Dilution 1 Percent Recovery 100 94 Prep Met Analyzed Prepared Dilution 1 1 1 1 1 1 Percent	By: MT By: MT RL 1.00 Recovery Limits 33.2 - 160 10 - 227 thod: S 5035 By: MT By: MT By: MT RL 0.0100 0.0100 0.0100

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Sample: 12	:5574 - 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:	\mathbf{ER}
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		2080	mg/Kg	100	1.00

Sample: 125574 - SB5 @ 20'

Analysis: QC Batch: Prep Batch:	Batch: 37554		Analytical Method: Date Analyzed: Sample Preparation:		Mod. 80 2007-05- 2007-05-	26	Prep Method: Analyzed By: Prepared By:		N/A TG TG
			RL						
Parameter	F	lag	Result		Units	5	Dilution		\mathbf{RL}
DR.O			<50.0		mg/Kg		1		50.0
Surrogate	Flag	Result	Units	Dilut	tion	Spike Amount	Percent Recovery		overy mits
n-Triacontan	e î	273	mg/Kg	1		150	182	62.5	- 164

Sample: 125574 - SB5 @ 20'

Analysis: QC Batch: Prep Batch:	\tilde{B} atch: 37547		Analytical Date Anal Sample Pr		S 8015B 2007-05-25 2007-05-25		Prep Metl Analyzed Prepared	By: MT
Parameter	Flag		RL Result		Units	D	lilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu 4-Bromofluor	ene (TFT) obenzene (4-BFB)		0.928 0.865	mg/Kg mg/Kg	1	1.00 1.00	93 86	33.2 - 160 10 - 227

Sample: 125575 - SB5 @ 35'

Analysis: QC Batch: Prep Batch:	C Batch: 37546		6 Date Analyzed:		Prep Method: Analyzed By: Prepared By:	
			\mathbf{RL}			
Parameter		Flag	Result	Units	Dilution	RL
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzen	e		< 0.0100	mg/Kg	1	0.0100

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

continued ...

sample 125575 continued

			RL	,					
Parameter	Flag		Result	,	Units	Di	lution	RL	
Xylene			< 0.0100)	mg/Kg]		0.0100	
						Spike	Percent	Recovery	
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)			0.924	mg/Kg]	1.00	92	52.1 - 131	
4-Bromofluorobenzene (4-BF	PB)		0.841	mg/Kg	1	1.00	84	48.7 - 146	

Sample: 125575 - SB5 @ 35'

Analysis: QC Batch: Prep Batch:	Chloride (IC) 38254 33119	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-17 2007-06-16	Prep Method: Analyzed By: Prepared By:	$\dot{\mathrm{ER}}$
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
Chloride	U	49.1	mg/Kg	ō	1.00

Sample: 125575 - SB5 @ 35'

Analysis: QC Batch: Prep Batch:	CBatch: 37554		Analytical Metho Date Analyzed: Sample Preparat			015B -26 -25	Prep Method: Analyzed By: Prepared By:		N/A TG TG
			RL						
Parameter	Fla	g	Result		Unit	S	Dilution		\mathbf{RL}
DRO			<50.0		mg/K	g].		50.0
Surrogata	Floor	Result	Units	Dilu	tion	Spike	Percent		overy: mits
Surrogate	Flag				UOD	Amount	Recovery		
n-Triacontan	e [°]	257	mg/Kg	1		150	171	62.5	- 164

Sample: 125575 - SB5 @ 35'

Analysis: QC Batch: Prep Batch:	TPH GRO 37547 32547		Analytical Date Anal Sample Pr	vzed:	S 8015B 2007-05-25 2007-05-25		Prep Me Analyze Preparee	d By: MT ·
			RL					
Parameter	Flag		Result		Units	D	ilution	\mathbf{RL}
GRO			<1.00		mg/Kg	·····	1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.982	mg/Kg	1	1.00	<u>98</u>	33.2 - 160
								continued

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

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sample continued					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
4-Bromofluorobenzene (4-BFB)		0.920	mg/Kg	1	1.00	92	10 - 227
Sample: 125576 - SB6 @ 1'							
Analysis: BTEX		Analytical N	lethod:	S 8021B		Prep Metl	nod: S 5035
QC Batch: 37546		Date Analyz		2007-05-25		Analyzed	
Prep Batch: 32547		Sample Pre		2007-05-25		Prepared 1	
		RL	,				
Parameter Flag		Result		Units	Di	lution	RL
Benzene		< 0.0100)	mg/Kg		1	0.0100
Toluene		< 0.0100)	mg/Kg		1	0.0100
Ethylbenzene		< 0.0100)	mg/Kg		1	0.0100
Xylene		< 0.0100)	mg/Kg		1	0.0100
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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: QC Batch: Prep Batch:	Chloride (IC) 38310 33169	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-18 2007-06-18	Prep Method: Analyzed By: Prepared By:	ER
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		414	mg/Kg	50	1.00

Sample: 125576 - SB6 @ 1^{*}

Analysis: QC Batch: Prep Batch:	TPH DRO 37554 32551		Analytical Me Date Analyze Sample Prepa	d: 2007-	8015B 05-26 05-25	Prep M Analyz Prepar	•
			RL				
Parameter	F	lag	Result	U	nits	Dilution	\mathbf{RL}
DRO			<50.0	mg,	/Kg	11	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontan		210	mg/Kg	1	150	140	62.5 - 164

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Sample: 125576 - SB6 @ 1'				
Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035		

QC Batch: Prep Batch:	37547 32547		Date Analyzed: 2		2007-(15-25 2007-(15-25	25 Analyzed		•
.	* _1		RL	÷	- - ,		••• · · ·	
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)	- 1005	0.946	mg/Kg	1	1.00	95	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		0.924	mg/Kg	1	1.00	92	10 - 227

Sample: 125577 - SB6 @ 3'

Analysis: QC Batch: Prep Batch:	BTEX 37546 32547		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Metho Analyzed By Prepared By	
			, ,		2001 00 20		1 101.000	By: MT
Parameter	Flag		RL Result		Units	L.	ilution	RL
	Flag					D.		
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	9	•	< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifiuorotolu	ene (TFT)		1.08	mg/K	g 1	1.00	108	52.1 - 131
4-Bromofluor	obenzene (4-BFB)		0.978	mg/K	-	1.00	98	48.7 - 146

Sample: 125577 - SB6 @ 3'

Analysis: QC Batch: Prep Batch:	Chloride (IC) 38312 33171	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-19 2007-06-18	Prep Method: Analyzed By: Prepared By:	\mathbf{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:	ΤG

Report Date: June 20, 2007 State M SWD				rk Order: 70 State M SW		Page Number: 30 of 71 Buckeye,NM		
			RL					
Parameter	Flag		Result		Units		Dilution	RL
DR.O			<50.0		mg/Kg]	50.0
						C	T)	Deer
Composito	م داتل	Deput	Thuết	Dilina	:	Spike	Percent	Recovery
Surrogate n-Triacontane	Flag 9	Result 251	Units	Diluti	ion A	Amount. 150	Recovery 167	Limits 62.5 - 164
	·	201	mg/Kg	<u>_</u>		100	107	02.0 - 104
Sample: 1255	577 - SB6 @ 3'	~						
Analysis: 7	TPH GRO		Analytical	Method:	S 8015B		Prep Met	hod: S 5035
•	37547		Date Analy		2007-05-25		Analyzed	
•	32547		Sample Pre		2007-05-25		Prepared	
,								
			RL					
Parameter	Flag		Result		Units		Dilution	RL
GRO			<1.00		mg/Kg		1	1.00
							_	_
c		-	-			Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluen			1.18	mg/Kg	1	1.00	118	33.2 - 160
4-Bromofiuoro	benzene (4-BFB)		1.07	mg/Kg	1	1.00	107	10 - 227
Sample: 125	578 - SB6 @ 5'							
Analysis: 1 QC Batch: 3	578 - SB6 @ 5' BTEX 37548 32548		Analytical M Date Analyze Sample Prepa	ed: 20	8021B 107-05-25 107-05-25		Prep Met Analyzed Prepared	By: MT
Analysis: 1 QC Batch: 3	BTEX 37548		Date Analyze	ed: 20	07-05-25		Analyzed	By: MT
Analysis: I QC Batch: 3 Prep Batch: 3	BTEX 37548 32548	5	Date Analyze Sample Prepa	ed: 20	07-05-25	I	Analyzed	By: MT
Analysis: I QC Batch: 3 Prep Batch: 3 Parameter	BTEX 37548	5	Date Analyze Sample Prepa RL	ed: 20	07-05-25 07-05-25 Units	I	Analyzed Prepared	By: MT By: MT
Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene	BTEX 37548 32548	5	Date Analyze Sample Prepa RL Result	ed: 20	07-05-25 07-05-25	I	Analyzed Prepared Dilution	By: MT By: MT RL
Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene Toluene	BTEX 37548 32548	<u>,</u>	Date Analyze Sample Prepa RL Result <0.0100	ed: 20	07-05-25 07-05-25 Units mg/Kg	I	Analyzed Prepared Dilution 1	By: MT By: MT RL 0.0100
Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene	BTEX 37548 32548	5	Date Analyze Sample Prepa RL Result <0.0100 <0.0100	ed: 20	07-05-25 07-05-25 Units mg/Kg mg/Kg	1	Analyzed Prepared Dilution 1 1	By: MT By: MT RL 0.0100 0.0100
Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene	BTEX 37548 32548		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100	ed: 20 aration: 20	07-05-25 07-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg	I Spike Amount	Analyzed Prepared Dilution 1 1 1	By: MT By: MT RL 0.0100 0.0100 0.0100
Analysis: 1 QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	BTEX 37548 32548 Flag	5 Flag	Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100	ed: 20 aration: 20 Units	07-05-25 07-05-25 <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg	Spike	Analyzed Prepared Dilution 1 1 1 1 2 Percent	By: MT By: MT 0.0100 0.0100 0.0100 0.0100 Recovery
Analysis: 1 QC Batch: 3 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluen	BTEX 37548 32548 Flag		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result	ed: 20 aration: 20	07-05-25 07-05-25 Units mg/Kg mg/Kg mg/Kg mg/Kg Dilution	Spike Amount	Analyzed Prepared Dilution 1 1 1 1 2 Percent Recovery	By: MT By: MT 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13
Analysis: 1 QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluen 4-Bromofiluorol Sample: 1255 Analysis: 0 QC Batch: 3	BTEX 37548 32548 Flag		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.988 0.998 Analytic Date An	ed: 20 aration: 20 <u>Units</u> mg/Kg mg/Kg al Method: alyzed:	07-05-25 07-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 2 E 300.0 2007-06-1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 99 100 Prep M Analyze	By: MT By: MT 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 13: 48.7 - 140 iethod: N/A ed By: ER
Analysis: 1 QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluen 4-Bromofiluorol Sample: 1255 Analysis: 0 QC Batch: 3	BTEX 37548 32548 Flag (TFT) benzene (4-BFB) 578 - SB6 @ 5' Chloride (IC) 38312		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.988 0.998 Analytic Date An Sample H	ed: 20 aration: 20 <u>Units</u> <u>mg/Kg</u> mg/Kg al Method:	07-05-25 07-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 2 E 300.0 2007-06-1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 99 100 Prep M	By: MT By: MT RL 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 131 48.7 - 146 iethod: N/A ed By: ER
Analysis: I QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xvlene Surrogate Trifluorotoluen 4-Bromofiluorol Sample: 1255 Analysis: 0 QC Batch: 3 Prep Batch: 3	BTEX 37548 32548 Flag re (TFT) benzene (4-BFB) 578 - SB6 @ 5' Chloride (IC) 38312 33171		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.988 0.998 Analytic Date An Sample H RL	ed: 20 aration: 20 <u>Units</u> mg/Kg mg/Kg al Method: alyzed:	07-05-25 07-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 2007-06-1 2007-06-1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 99 100 Prep M Analyze Prepare	By: MT By: MT RL 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 131 48.7 - 140 iethod: N/A ed By: ER ed By: ER
Analysis: 1 QC Batch: 2 Prep Batch: 3 Parameter Benzene Toluene Ethylbenzene Xvlene Surrogate Trifluorotoluen 4-Bromofluorol Sample: 1255 Analysis: 0 QC Batch: 3	BTEX 37548 32548 Flag (TFT) benzene (4-BFB) 578 - SB6 @ 5' Chloride (IC) 38312		Date Analyze Sample Prepa RL Result <0.0100 <0.0100 <0.0100 <0.0100 Result 0.988 0.998 Analytic Date An Sample H	ed: 20 aration: 20 <u>Units</u> mg/Kg mg/Kg al Method: alyzed:	07-05-25 07-05-25 mg/Kg mg/Kg mg/Kg Dilution 1 1 2 E 300.0 2007-06-1	Spike Amount 1.00 1.00	Analyzed Prepared Dilution 1 1 1 1 Percent Recovery 99 100 Prep M Analyze	By: MT By: MT RL 0.0100 0.0100 0.0100 0.0100 0.0100 Recovery Limits 52.1 - 131 48.7 - 140 iethod: N/A ed By: ER

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

Report Date: June 20, 2007 State M SWD				Order: 7052526 ate M SWD	Page Number: 31 of 71 Buckeye,NM			
Sample: 125	578 - SB6 @ 5	,						
Analysis: TPH DRO			Analytical Me	ethod: Mod.	3015B	Prep M	Aethod: N/A	
QC Batch:	37554		Date Analyze	d: 2007-0	5-26	Analyz	ed By: TG	
Prep Batch:	32551		Sample Prepa	ration: 2007-0	5-25	Prepared By: TG		
			RL					
Parameter	Flag	7	Result	Un	its	Dilution	RL	
DRO			1300	mg/l	íg	1	50.0	
					Spike	Percent	Recovery	
Surrogate	ate Flag Result Units		Dilution	Amount	Recovery	Limits		
n-Triacontane	10	524	mg/Kg	1	15()	349	62.5 - 164	

Sample: 125578 - SB6 @ 5'

Analysis: QC Batch: Prep Batch:	TPH GRO 37549 32548		Analytical Date Anal Sample Pr		S 8015B 2007-05-25 2007-03-25	Prep Metho Analyzed E Prepared B		By: MT
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.08	mg/Kg	1	1.00	108	33.2 - 160
4-Bromofiuor	obenzene (4-BFB)		1.11	mg/Kg	1	1.00	111	10 - 227

Sample: 125579 - SB6 @ 15'

Analysis: QC Batch: Prep Batch:	BTEX 37546 32547		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Meth Analyzed Prepared I	By: MT
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
Benzene			< 0.0100		mg/Kg	- / · · · · · · · · · · · · · · · · · · 	1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	3		< 0.0100		mg/Kg		1	0.0100
Xvlene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.900	mg/K	g 1	1.00	90	52.1 - 131
4-Bromofluor	robenzene (4-BFB)		0.805	mg/K		1.00	80	48.7 - 146

¹⁰High surrogate recovery due to peak interference.

Report Date: June 20, 2007 State M SWD			Work Order: 7052526 State M SWD			Page Number: 32 of 71 Buckeye,NM		
Sample: 12	5579 - SB6 @ 15							
Analysis:	Chloride (IC)		Analytical M	ethod: E 300	1.0	Prep Metho	d: N/A	
QC Batch:	38312		Date Analyze	ed: 2007-	06-19	Analyzed B	: ER	
Prep Batch:	33171		Sample Prepa	aration: 2007-	06-18	Prepared B	\sim ER	
			RL					
Parameter	Flag		Result	Unit	s	Dilution	\mathbf{RL}	
Chloride	· · · · · · · · · · · · · · · · · · ·		1460	mg/K	g	100	1.00	
Complex 12	5570 SD6 @ 15	,						
Analysis:	5579 - SB6 @ 15 TPH DRO 37554		Analytical Meth			Prep Metho Analyzed B		
Analysis: QC Batch:			Analytical Metl Date Analyzed: Sample Prepara	2007-05	-26	Prep Metho Analyzed B Prepared B	v: TG	
Analysis: QC Batch:	TPH DRO 37554		Date Analyzed:	2007-05	-26	Analyzed B	v: TG	
Analysis: QC Batch: Prep Batch:	TPH DRO 37554		Date Analyzed: Sample Prepara	2007-05	-26 -25	Analyzed B	r: TG r: TG RL	
Sample: 12 Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 37554 32551	,	Date Analyzed: Sample Prepara RL	2007-05 ation: 2007-05	26 25	Analyzed B Prepared B	y: TG y: TG	
Analysis: QC Batch: Prep Batch: Parameter DRO	TPH DRO 37554 32551 Flag	,	Date Analyzed: Sample Prepara RL Result	2007-05 ation: 2007-05 Unit	26 25	Analyzed B Prepared B Dilution 1	r: TG r: TG RL	
Analysis: QC Batch: Prep Batch: Parameter	TPH DRO 37554 32551 Flag	Result 223	Date Analyzed: Sample Prepara RL Result	2007-05 ation: 2007-05 Unit	-26 -25 -ε ε	Analyzed B Prepared B Dilution 1 Percent 1 Recovery	y: TG y: TG RL 50.0	

Sample: 125579 - SB6 @ 15'

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Analysis: QC Batch: Prep Batch:	QC Batch: 37547		Analytical Method: Date Analyzed: Sample Preparation:				Prep Meth Analyzed Prepared	By: MT
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifiuorotolu	ene (TFT)		0.972	mg/Kg	1	1.00	97	33.2 - 160
4-Bromofiuor	obenzene (4-BFB)		0.869	mg/Kg]	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
			RL			
Parameter		Flag	Result	Units	Dilution	\mathbf{RL}
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzen	e		< 0.0100	mg/Kg	1	0.0100
					continued	

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sample 125580 continued ...

			RL					
Parameter	Flag		Result		Units	Di	lution	RL
Xylene			< 0.0100		mg/Kg]	0.01.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.11	mg/Kg	1	1.00	111	52.1 - 131
4-Bromofluorobenzene (4-B)	FB)		1.01	mg/Kg	1	1.00	101	48.7 - 146

Sample: 125580 - SB6 @ 35'

Analysis: QC Batch: Prep Batch:	Chloride (IC) 38312 33171	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-19 2007-06-18	Prep Method: Analyzed By: Prepared By:	,
Duning		RL	T T :/		τī
Parameter	Flag	Result	Units	Dilution	RL
Chloride		461	mg/Kg	50	1.00

Sample: 125580 - SB6 @ 35'

Analysis: QC Batch: Prep Batch:	TPH DRO 37554 32551		Analytical M Date Analyze Sample Prepa	ed: 2007-0		Analyz	fethod: N/A wed By: TG red By: TG
			RL				
Parameter	Fla	ag	Result	Ur	nits	Dilution	R.L
DRO			<50.0	mg/	Kg	1	50.0
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontan	e	228	mg/Kg	1	150	152	62.5 - 164

Sample: 125580 - SB6 @ 35'

Analysis: QC Batch: Prep Batch:	TPH GRO 37547 32547	Analytical Method: Date Analyzed: Sample Preparation:		S 8015B 2007-05-25 2007-05-25		Prep Meth Analyzed Prepared 1	By: MT	
			RL					
Parameter	Flag		Result		Units	D	ilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.20	mg/Kg	1	1.00	120	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.10	mg/Kg	1	1.00	110	10 - 227

5581 - SB7 @ 1' BTEX 37618 32598		Appletical			Work Order: 7052526 State M SWD			
37618		A malartical NA						
		Analytical M Date Analyze Sample Prepa	ed: 2	8021B 007-05-29 007-05-29		Prep Met Analyzed Prepared	By: KI	
Flag		RL Result		Unite	T	Dilution		RI
	>	0.0717				1	0.	010
						1		010
•						1	0.	010
		0.244		mg/Kg		1		010
					Spike	Percent	Reco	
	Flag							
obenzene (4-BFB)		0.850	mg/Kg	1	1.00	80	48.7 -	- 14
5581 - SB7 @ 1' Chloride (IC) 38352 33202		Date An	alyzed:	2007-06-2		Analyze	ed By:	N/J ER ER
00202			Prenaration					
		-	Preparation	1. 2001-00-1				
Flag		RL	Preparation	Units		-		RI
Flag		-	Preparation			Dilution 5	-	
5581 - SB7 @ 1'		RL Result 42.8		Units mg/Kg		Dilution 5	- 	1.0
5581 - SB7 @ 1' TPH DRO		RL Result 42.8 Analytical	Method:	Units mg/Kg Mod. 8015E		Dilution 5 Prep M	ethod:	1.0 N/J
5581 - SB7 @ 1'		RL Result 42.8	Method: vzed:	Units mg/Kg Mod. 8015E 2007-05-26		Dilution 5	ethod:	1.0 N/A TG
5581 - SB7 @ 1' TPH DRO 37554 32351		RL Result 42.8 Analytical Date Analy Sample Pro RL	Method: vzed:	Units mg/Kg Mod. 8015E 2007-05-26 2007-05-25		Dilution 5 Prep M Analyze Prepare	ethod:	1.0 N/J TG TG
5581 - SB7 @ 1' TPH DRO 37554 32551 Flag		RL Result 42.8 Analytical Date Analy Sample Pro RL Result	Method: vzed:	Units mg/Kg Mod. 8015E 2007-05-26 2007-05-25 Units		Dilution 5 Prep M Analyze Prepare Dilution	ethod:	1.0 N/J TG TG RJ
5581 - SB7 @ 1' TPH DRO 37554 32351		RL Result 42.8 Analytical Date Analy Sample Pro RL	Method: vzed:	Units mg/Kg Mod. 8015E 2007-05-26 2007-05-25		Dilution 5 Prep M Analyze Prepare Dilution 1	ethod: ed By: ed By:	1.0 N/J TG TG R <u>50</u> .
5581 - SB7 @ 1' TPH DRO 37554 32551 Flag	Result	RL Result 42.8 Analytical Date Analy Sample Pro RL Result	Method: vzed: eparation:	Units mg/Kg Mod. 8015E 2007-05-26 2007-05-25 Units mg/Kg		Dilution 5 Prep M Analyze Prepare Dilution	ethod:	
•	ene (TFT) obenzene (4-BFB) 5581 - SB7 @ 1' Chloride (IC) 38352	Flag ene (TFT) obenzene (4-BFB) 5581 - SB7 @ 1' Chloride (IC) 38352	0.0699 0.157 0.244 Flag re (TFT) 0.664 obenzene (4-BFB) 0.856 5581 - SB7 @ 1' Chloride (IC) 38352 Date An	0.0699 0.157 0.244 Flag Result units ene (TFT) 0.664 obenzene (4-BFB) 0.856 5581 - SB7 @ 1' Chloride (IC) Analytical Method: 38352 Date Analyzed:	0.0699 mg/Kg 0.157 mg/Kg 0.244 mg/Kg Flag Result Units Dilution 0.664 mg/Kg me (TFT) 0.664 mg/Kg obenzene (4-BFB) 0.856 mg/Kg 5581 - SB7 @ 1' Chloride (IC) Analytical Method: E 300.0 38352 Date Analyzed: 2007-06-24	0.0699 mg/Kg 0.157 mg/Kg 0.244 mg/Kg 0.244 mg/Kg Flag Result Units Dilution Amount me (TFT) 0.664 mg/Kg 1 1.00 obenzene (4-BFB) 0.856 mg/Kg 1 1.00 5581 - SB7 @ 1' Chloride (IC) Analytical Method: E 300.0 38352 Date Analyzed: 2007-06-20	0.0699 mg/Kg 1 0.157 mg/Kg 1 0.244 mg/Kg 1 0.244 mg/Kg 1 Spike Percent Flag Result Units Dilution Amount Recovery me (TFT) 0.664 mg/Kg 1 1.00 66 obenzene (4-BFB) 0.856 mg/Kg 1 1.00 86 5581 - SB7 @ 1' Chloride (IC) Analytical Method: E 300.0 Prep M 38352 Date Analyzed: 2007-06-20 Analyzed	0.0699 ng/Kg 1 0. 0.157 ng/Kg 1 0. 0.244 mg/Kg 1 0. Spike Percent Recovery Lim me (TFT) 0.664 mg/Kg 1 1.00 66 52.1 obenzene (4-BFB) 0.856 mg/Kg 1 1.00 86 48.7 5581 - SB7 @ 1' Chloride (IC) Analytical Method: E 300.0 Prep Method: 38352 Date Analyzed: 2007-06-20 Analyzed By:

¹¹High surrogate recovery due to peak interference.

sample 125581 continued ...

D			RL		T	T	·]	RL
Parameter	Flag		Result		Units	D	ilution	<u></u>
			\mathbf{RL}					
Parameter	Flag		Result		Unite	Ď	ilution	\mathbf{RL}
GRO			21.1		mg/Kg		1	1.00
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (T	'FT)		0.756	mg/Kg	1	1.00	76	33.2 - 160
4-Bromofluorobenz	ene (4-BFB)		1.16	mg/Kg	1	1.00	116	10 - 227

Sample: 125582 - SB7 @ 3'

Analysis: QC Batch: Prep Batch:	BTEX 37618 32598		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-29 2007-05-29		Prep Metl Analyzed Prepared !	By: KB
	·		\mathbf{RL}					
Parameter	Flag		Result		Units	Di	lution	RL
Benzene			< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzene	3		< 0.0100		mg/Kg		1	0.0100
Xylene			0.478		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolu	ene (TFT)		0.722	mg/Kg	z 1	1.00	72	52.1 - 131
4-Bromofluor	obenzene (4-BFB)		1.10	mg/Kg	-	1.00	110	48.7 - 146

Sample: 125582 - SB7 @ 3'

Analysis: QC Batch:	Chloride (IC) 38352	Analytical Method: Date Analyzed:	E 300.0 2007-06-20	Prep Method: Analyzed By:	
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER
		\mathbf{RL}			
Parameter	Flag	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:	$\mathbf{T}\mathbf{G}$

continued ...

Report Date: Jun State M SWD	ne 20, 2007			Order: 7052526 ate M SWD		Page Number: 36 Buckeye		
sample 125582 co	ntinued							
			\mathbf{RL}					
Parameter	Flag	5	Result	Uni	ts	Dilution	RL	
			RL					
Parameter	Flag		Result	Uni	US.	Dilution	RL	
DRO			4380	mg/k	(g	10	50.0	
					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
n-Triacontane	12	1410	mg/Kg	10	150	940	62.5 - 164	

Sample: 125582 - SB7 @ 3'

Analysis: TPH GRO QC Batch: 37549 Prep Batch: 32548			Date Analyzed:		S 8015B 2007-05-25 2007-05-25	5-25 Analyzed		By: MT
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	RL
GRO		_=	73.9		mg/Kg		20	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		0.549	mg/Kg	20	1.00	55	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.46	mg/Kg	20	1.00	146	10 - 227

Sample: 125583 - SB7 @ 5'

Analysis: QC Batch: Prep Batch:	BTEX 37548 32548		Analytical M Date Analyze Sample Prepa	ed:	S 8021B 2007-05-25 2007-05-25		Prep Meth Analyzed Prepared 1	$\mathbf{B}_{\mathbf{Y}}$: MT
			RL					
Parameter	Flag		Result		Units	Di	lution	\mathbf{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
Xvlene			4.05		mg/Kg		20	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotolue	ene (TFT)	13	0.521	mg/Kg	g 20	1.00	52	52.1 - 131
4-Bromofluor	obenzene (4-BFB)		0.600	mg/Kg	g <u>20</u>	1.00	6 0	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:	\mathbf{ER}

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

State M SWD	me 20, 2007		Wo	rk Order: State M S			Page Number: 37 of T Buckeye N		
			RL						
Parameter	Flag		Result		Units		Dilution	RI	
Chloride			210		mg/Kg		50	1.00	
Sample: 12558	3 - SB7 @ 5'								
•	PH DRO		Analytical		Mod. 8013		Prep M		
•	554		Date Anal		2007-05-26		Analyze		
Prep Batch: 32	551		Sample Pr	eparation:	2007-05-23	ō	Prepare	ed By: TG	
			RL		* * *.		D .1 /1	Ð	
Parameter	Flag		Result		Units	<u></u>	Dilution	RI	
DR.O		· · · · · · · · · · · · · · · · · · ·	16700		mg/Kg		10	50.0	
Countries to the		Dec V	۲ ۰۰,	T		Spike	Percent	Recovery	
Surrogate n-Triacontane	Flag	Result 2490	Units mg/Kg		ution 10	Amount 150	Recovery 1660	Limits 62.5 - 164	
Sample: 12558	3 - SB7 @ 5'								
Analysis: Tl	3 - SB7 @ 5' PH GRO		Analytical		S 8015B		Prep Met	hod: S 503	
Analysis: Tl QC Batch: 37	PH GRO 549		Analytical Date Anal		S 8015B 2007-05-23	õ	Analyzed	By: MT	
Analysis: Tl QC Batch: 37	PH GRO			yzed:	2007-05-23			By: MT	
Analysis: TI QC Batch: 37 Prep Batch: 32	PH GRO 549 548		Date Anal	yzed:	2007-05-23		Analyzed Prepared	By: MT	
Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter	PH GRO 549		Date Anal Sample Pr	yzed:	2007-05-23		Analyzed	By: MT	
Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter	PH GRO 549 548		Date Anal Sample Pr RL	yzed:	2007-05-23 2007-05-23		Analyzed Prepared	By: MT By: MT	
Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter GRO	PH GRO 549 548		Date Anal Sample Pr RL Result 377	yzed:	2007-05-23 2007-05-23 Units mg/Kg	5 Spike	Analyzed Prepared Dilution 20 Percent	By: MT By: MT RJ 1.0 Recovery	
Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate	PH GRO 549 548 Flag	Flag	Date Anal Sample Pr RL Result 377 Result	yzed: eparation: Units	2007-05-23 2007-05-23 Units mg/Kg Dilution	5 Spike n Amount	Analyzed Prepared Dilution 20 Percent Recovery	By: MT By: MT RJ 1.0 Recovery Limits	
Analysis: TI QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene	PH GRO 549 548 Flag (TFT)	Flag	Date Anal Sample Pr RL Result 377 Result 0.696	yzed: eparation: Units mg/Kg	2007-05-23 2007-05-23 Units mg/Kg Dilution 20	5 Spike n Amount 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70	By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16	
QC Batch: 37	PH GRO 549 548 Flag (TFT)	Flag	Date Anal Sample Pr RL Result 377 Result	yzed: eparation: Units	2007-05-23 2007-05-23 Units mg/Kg Dilution	5 Spike n Amount	Analyzed Prepared Dilution 20 Percent Recovery	By: MT By: MT RJ 1.0 Recovery Limits	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofluorobe	PH GRO 549 548 Flag (TFT) enzene (4-BFB)		Date Anal Sample Pr RL Result 377 Result 0.696	yzed: eparation: Units mg/Kg	2007-05-23 2007-05-23 Units mg/Kg Dilution 20	5 Spike n Amount 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70	By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558	PH GRO 549 548 Flag (TFT) enzene (4-BFB)		Date Anal Sample Pr RL Result 377 Result 0.696	yzed: eparation: Units mg/Kg mg/Kg	2007-05-23 2007-05-23 Units mg/Kg Dilution 20	5 Spike n Amount 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70 179	By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B'	PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20		Date Anal Sample Pr RL Result 377 Result 0.696 1.79	yzed: eparation: Units mg/Kg mg/Kg fethod:	2007-05-23 2007-05-23 <u>Units</u> mg/Kg Dilution 20 20	5 Spike n Amount 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met	By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' QC Batch: 37	PH GRO 549 548 (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ FEX		Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M	yzed: reparation: Units mg/Kg mg/Kg fethod:	2007-05-23 2007-05-23 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 20 20 S 8021B	5 Spike n Amount 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70 179	By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Irifluorotoluene 4-Bromofluorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32	PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 548		Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz	yzed: reparation: Units mg/Kg mg/Kg fethod:	2007-05-23 2007-05-23 <u>Units</u> <u>mg/Kg</u> <u>Dilution</u> 20 20 S 8021B 2007-05-25	5 Spike n Amount 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed	By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofluorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 Parameter	PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548		Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz Sample Prep RL Result	yzed: reparation: Units mg/Kg mg/Kg fethod:	2007-05-23 2007-05-23 mg/Kg Dilution 20 20 S 8021B 2007-05-25 2007-05-25 2007-05-25	5 Spike n Amount 1.00 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed Prepared Dilution	By: MT By: MT Rl 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT By: MT By: MT	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 Parameter Benzene	PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 548		Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz Sample Prep RL Result 6.46	yzed: reparation: Units mg/Kg mg/Kg fethod:	2007-05-23 2007-05-23 mg/Kg Dilution 20 20 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg	5 Spike n Amount 1.00 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed Prepared Dilution 20	By: MT By: MT Rl 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT By: MT Rl 0.010	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 Parameter Benzene Toluene	PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 548		Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz Sample Prep RL Result 6.46 0.770	yzed: reparation: Units mg/Kg mg/Kg fethod:	2007-05-23 2007-05-23 mg/Kg Dilution 20 20 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg mg/Kg	5 Spike n Amount 1.00 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed Prepared Dilution 20 20	By: MT By: MT RJ 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT By: MT RJ 0.010 0.010	
Analysis: Ti QC Batch: 37 Prep Batch: 32 Parameter GRO Surrogate Trifluorotoluene 4-Bromofiuorobe Sample: 12558 Analysis: B' QC Batch: 37 Prep Batch: 32 Parameter Benzene	PH GRO 549 548 Flag (TFT) enzene (4-BFB) 64 - SB7 @ 20 ³ TEX 548 548		Date Anal Sample Pr RL Result 377 Result 0.696 1.79 Analytical M Date Analyz Sample Prep RL Result 6.46	yzed: reparation: Units mg/Kg mg/Kg fethod:	2007-05-23 2007-05-23 mg/Kg Dilution 20 20 S 8021B 2007-05-25 2007-05-25 2007-05-25 Units mg/Kg	5 Spike n Amount 1.00 1.00	Analyzed Prepared Dilution 20 Percent Recovery 70 179 Prep Met Analyzed Prepared Dilution 20	By: MT By: MT Rl 1.0 Recovery Limits 33.2 - 16 10 - 227 hod: S 503 By: MT By: MT Rl 0.010	

¹⁴High surrogate recovery due to peak interference.

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Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluen	ie (TFT)	15	0.456	mg/Kg	20	1.00	46	52.1 - 131
	benzene (4-BFB)	16	3.49	mg/Kg	20	1.00	349	48.7 - 146
								۰.
Sample: 1258	584 - SB7 @ 20'							
	Chloride (IC)		Analyti	cal Method	: E 300.0		Prep M	
•	38312		Date Ar		2007-06-1	19	Analyze	
Prep Batch:	33171		Sample	Preparatio	n: 2007-06-1	18	Prepare	ed By: ER
			RL					
Parameter	Flag		Result		Units		Dilution	RL
Chloride			19.0		mg/Kg		5	1.00
Sample: 125	584 - SB7 @ 20'							
Analysis: '	TPH DRO		Analytica	Method.	Mod. 8015	В	Prep M	ethod: N/A
•	37678		Date Ana		2007-05-30		Analyze	
-	32609			reparation:			Prepare	
-,					2001 00 20			
_			RL					
Parameter	Flag		Result		Units		Dilution	RL
DRO			6620		mg/Kg		10	50.0
a .	57	D 1.	1 11			Spike	Percent.	Recovery
Surrogate	Flag	Result	Units			Amount	Recovery	Limits
n-Triacontane		1020	mg/Kg	<u> </u>	10	150	680	62.5 - 164
Sample: 125	584 - SB7 @ 20'							
Analysis: '	TPH GRO		Analytical	Method	S 8015B		Prep Met	hod: S 5035
	37549		Date Anal		2007-05-25		Analyzed	
	32548			reparation:	2007-05-25		Prepared	
			RL					
Parameter	Flag		Result		Units		Dilution	RL
GRO			1010		mg/Kg		20	1.00
. .			T	T 3 (1)		Spike	Percent	Recovery
		Flag						Limits
		18						33.2 - 160 10 - 227
Sample: 125	ne (TFT) benzene (4-BFB) 585 - SB7 @ 39' BTEX	Flag 18	Result 0.452 9.54 Analytical M	Units mg/Kg mg/Kg	Dilution 2() 20 S 8021B	Spike Amount 1.00 1.00		Li 33.2 10
•	37618		Date Analyz		2007-05-29			
-	32598		Sample Prep		2007-05-29		Analyzed Prepared	
crep Dabun.	02030		oamme r rej	Jai a 61011:	2007-00-29		r repared	DÂ: VĐ

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

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Parameter FI	ag	RL Result		Units	Di	lution	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
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	Amount	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: QC Batch: Prep Batch:	Chloride (IC) 38352 33202	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-20 2007-06-19	Prep Method: Analyzed By: Prepared By:	ĒR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		24.9	mg/Kg	ō	1.00

Sample: 125585 - SB7 @ 39'

Analysis: QC Batch: Prep Batch:	TPH DRO 37554 32551		Analytical M Date Analyze Sample Prepa	ed:	Mod. 80 2007-05- 2007-05-	26	•	fethod: ed By: ed By:	N/A TG TG
			RL						
Parameter	E	lag	Result		Units	5	Dilution		RL
DRO		· · · · · · · · · · · · · · · · · · ·	21600	·····	mg/Kg	z	10		50.0
						Spike	Percent	Rec	overy
Surrogate	Flag	Result	Units	Dilut	ion	Amount	Recovery	Li	mits
n-Triacontan	e 20	1520	mg/Kg	10		150	1013	62.5	- 164

Sample: 125585 - SB7 @ 39'

Analysis: QC Batch:	TPH GRO 37619	Analytical Method: Date Analyzed:	S 8015B 2007-05-29	Prep Method: Analyzed By:	
Prep Batch:	32598	Sample Preparation:	2007-05-29	Prepared By:	KB
		RL			
Parameter	Flag	Result	Units	Dilution	$\mathbf{R}\mathbf{L}$
GRO		8800	mg/Kg	200	1.00

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

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Triffuorotoluene (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 N	fethod:	S 8021B		Prep Metl	nod: S 5035	
QC Batch: 37546		Date Analyz	zed:	2007-05-25		Analyzed	By: MT	
Prep Batch: 32547		Sample Prej	paration:	2007-05-25		Prepared	By: MT	
		RL	J					
Parameter Flag		Result	5	Units	Di	lution	RL	
Benzene		< 0.0100)	mg/Kg		1	0.0100	
Toluene		< 0.0100)	mg/Kg		1	0.0100	
Ethylbenzene		< 0.0100)	mg/Kg		1	0.0100	
Xylene		< 0.0100)	mg/Kg		1	0.0100	
·					Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits	
Trifluorotoluene (TFT)		1.13	mg/Kg	1	1.00	113	52.1 - 131	
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg		1.00	105	48.7 - 146	

Sample: 125586 - SB8 @ 1'

Analysis: QC Batch: Prep Batch:	Chloride (IC) 38312 33171	Analytical Method: Date Analyzed: Sample Preparation:	E 300.0 2007-06-19 2007-06-18	Prep Method Analyzed By Prepared By:	ER
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chioride		10800	mg/Kg	1000	1.00

Sample: 125586 - SB8 @ 1'

Analysis: QC Batch: Prep Batch:	TPH DRO 37555 32551		Analytical Me Date Analyze Sample Prepa	d:	Mod. 80 2007-05 2007-05	-26	Prep M Analyz Prepar	•	N/A TG TG
	ι.		\mathbf{RL}						
Parameter	Flag	5	Result		Unit	s	Dilution		RL
DRO				<50.0		g	1		50.0
Surrogate	Flag	Result	Units	Dilu	tion	Spike Amount	Percent Recovery		overy mits
n-Triacontan	e	227	mg/Kg		[150	151	62.8	- 164

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

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Sample: 125586 - SB8 @ 1'

Analysis: QC Batch: Prep Batch:	TPH GRO 37547 32547		Analytical Date Anal Sample Pr	yzed:	S 8015B 2007-05-25 2007-05-25		Prep Meth Analyzed I Prepared I	By: MT
			\mathbf{RL}					
Parameter	Flag		Result		Units	D	ilution	\mathbf{RL}
GRO			5.65		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		1.21	mg/Kg	1	1.00	121	33.2 - 160
4-Bromofluor	robenzene (4-BFB)		1.25	mg/Kg	1	1.00	125	10 - 227

Sample: 125587 - SB8 @ 3'

Analysis: QC Batch: Prep Batch:	BTEX 37546 32547		Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Meth Analyzed I Prepared I	By: MT
			RL					
Parameter	Fla	ug:	Result		Units	D	ilution	\mathbf{RL}
Benzene	·····		< 0.0100		mg/Kg		1	0.0100
Toluene			< 0.0100		mg/Kg		1	0.0100
Ethylbenzen	9		< 0.0100		mg/Kg		1	0.0100
Xylene			< 0.0100		mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifiuorotolu	ene (TFT)		1.04	mg/K	g 1	1.00	104	52.1 - 131
4-Bromofluor	robenzene (4-BFB)		0.959	mg/K	-	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:	\mathbf{ER}
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	\mathbf{ER}
		RL			
Parameter	Flag	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:	ΤĠ
Prep Batch:	32551	Sample Preparation:	2007-05-25	Prepared By:	ΤG

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	ורד		RL					ni	
Parameter DRO	Flag		Result		Units		Dilution	RL	
			< 50.0		mg/Kg		1	50.0	
Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery	Recovery Limits	
a-Triacontane	· · · · · · · · · · · · · · · · · · ·	227	mg/Kg		1	150	151	62.5 - 164	
Sample: 125585	7 - SB8 @ 3'								
Analysis: TP QC Batch: 375 Prep Batch: 325			Analytical Date Analy Sample Pr	yzed:	S 8015B 2007-05-25 2007-05-25		Prep Metl Analyzed Prepared	By: MT	
Parameter	Floor		RL Result		Units		Dilution	RL	
GRO	Flag		<1.00		mg/Kg]	1.00	
			<1.00		mg/mg	<u> </u>	<u>_</u>		
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotoluene (TFT)	t me	1.12	mg/Kg	1	1.00	112	33.2 - 160	
4-Bromofluorober			1.05	mg/Kg	1	1.00	105	10 - 227	
Sample: 125588	8 - SB8 @ 5'								
Analysis: BT	ΈX		Analytical M	[ethod·	S 8021B		Prep Met	hod: S 5035	
QC Batch: 375			Date Analyz		2007-05-25		Analyzed		
Prep Batch: 325			Sample Prep		2007-05-25		Prepared		
			RL						
Parameter	Flag	[Result		Units	I	Dilution	RI	
Benzene			< 0.0100		mg/Kg		1	0.0100	
10110000			< 0.0100		mg/Kg		1	0.0100	
			< 0.0100		mg/Kg		1	0.0100	
Ethylbenzene			< 0.0100		mg/Kg		1	0.0100	
Ethylbenzene									
Toluene Ethylbenzene Xylene			Becult	Linite	Dilution	Spike Amount	Percent	Recovery Limits	
Ethylbenzene	TFT)	Flag	Result	Units mg/Kg	Dilution		Percent Recovery 107	Recovery Limits 52.1 - 131	

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:	\mathbf{ER}
Prep Batch:	33202	Sample Preparation:	2007-06-19	Prepared By:	ER
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		303	mg/Kg	50	1.00

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Sample: 125	5588 - SB8 @ 5'								
Analysis: QC Batch: Prep Batch:	TPH DRO 37555 32551		Analytical Date Analy Sample Pre	vzed:	Mod. 8015 2007-05-26 2007-05-25		Prep M Analyze Prepare	ed By: TG	
			RL						
Parameter	Flag		Result		Units		Dilution	RL	
DRO			<50.0		mg/Kg]	50.0	
						Spike	Percent	Recovery	
Surrogate	Flag	Result	Units	Dil	ution	Amount	Recovery	Limits	
n-Triacontane		226	mg/Kg		1	150	151	62.5 - 164	
Sample: 12:	5588 - SB8 @ 5'								
Analysis:	TPH GRO		Analytical		S 8015B		Prep Met		
QC Batch:	37547		Date Anal		2007-05-25		Analyzed		
Prep Batch:	32547		Sample Pr	eparation:	2007-05-25		Prepared	By: MT	
			\mathbf{RL}						
Parameter	Flag		Result		Units		Dilution	RL	
GRO			<1.00		mg/Kg		1	1.00	
						Spike	Percent	Recovery	
Surrogate	•	Flag	Result	Units	Dilution			Limits	
Trifluorotolue	. ,		1.16	mg/Kg	1	1.00	116	33.2 - 160	
4-Bromofluor	obenzene (4-BFB)		1.07	mg/Kg	1	1.00	107	10 - 227	
Sample: 12 Analysis: QC Batch: Prep Batch:	5589 - SB8 @ 20 BTEX 37546 32547	, ,	Analytical M Date Analyz Sample Prep	ed:	S 8021B 2007-05-25 2007-05-25		Prep Met Analyzed Prepared	By: MT	
Parameter	Fla	g	RL Result		Units		Dilution	RL	
Benzene			< 0.0100		mg/Kg		1	0.0100	
Toluene			<0.0100		mg/Kg		1	0.0100	
Ethylbenzene	3		< 0.0100		mg/Kg		1	0.0100	
Xvlene		···	< 0.0100		mg/Kg	·····	11	0.0100	
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits	
Trifluorotolue		23	1.33	mg/Kg	1	1.00	133	52.1 - 131	
1 10 10	obenzene (4-BFB)		1.22	mg/Kg	1	1.00	122	48.7 - 146	

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

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Sample: 12	25589 - SB8 @ 20'				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Metho	d: N/A
QC Batch:	38352	Date Analyzed:	2007-06-20	Analyzed By	: ER
Prep Batch:	33202	Sample Preparation: 2007-06-19		Prepared By	: ER
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		2190	mg/Kg	100	

Sample: 125589 - SB8 @ 20'

Analysis: QC Batch: Prep Batch:	TPH DRO 37555 32551		Analytical Me Date Analyze Sample Prepa	d: 2007-0	5-26	Prep N Analyz Prepar	-
Parameter	Fì	ag	RL Result	Un	its	Dilution	RL
DRO				mg/.	Kg	1	50.0
Surrogate n-Triacontan	Flag	Result 230	Units mg/Kg	Dilution 1	Spike Amount 150	Percent Recovery 153	Recovery Limits 62.5 - 164

Sample: 125589 - SB8 @ 20'

Analysis: QC Batch: Prep Batch:			Analytical Method: Date Analyzed: Sample Preparation:		S 8015B 2007-05-25 2007-05-25		Prep Meth Analyzed Prepared 1	By: MT
			RL					
Parameter Flag			Result		Units	Dilution		RL
GRO			<1.00		mg/Kg	······································	1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recoverv	Recovery Limits
Trifluorotolu	ene (TFT)	0	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: QC Batch: Prep Batch:	BTEX 37546 32547		Analytical Method: Date Analyzed: Sample Preparation:	S 8021B 2007-05-25 2007-05-25	· Prep Method: Analyzed By: Prepared By:	
			RL			
Parameter		Flag	Result	Units	Dilution	RL
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzen	e		< 0.0100	mg/Kg	1	0.0100

continued

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0 continued									
		RL							
Flag		Result		Units		Dilution		RL	
Vylene		<0.0100		mg/Kg]	0.0100		
	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery		overy: mits	
		1.14	mg/Kg	1	1.00	114		- 13	
obenzene (4-BFB)		1.04	mg/Kg]	1.00	104	48.7	- 14	
5590 - SB8 @ 39'									
Chloride (IC)		Analytic	al Method:	E 300.0		Prep M	ethod:	N/.	
Analysis: Chloride (IC) QC Batch: 38352					20			ÉŔ	
Prep Batch: 33202		Sample Preparation: 2007-06-19			19	Prepare	ed By:	ER	
		RL							
Flag						Dilution		R	
		263		mg/Kg		50		1.0	
alysis: TPH DRO Batch: 37555 ep Batch: 32551				2007-05-26 2007-05-25				ТĠ TG	
771		RL Durult		Tlates		Dibution		Ð	
Flag	···							R 50.	
		< 30.0		mg/ng		1			
Ela <i>r</i>	Pagult	Tinita	Dila	tion	-	Percent		cover mits	
·								5 - 16	
		6/_0							
5590 - SB8 @ 39'									
5590 - SB8 @ 39' TPH GRO		Analytical	Method:	S 8015B		Prep Met	hod:	S 303	
TPH GRO 37547		Date Anal	yzed:	2007-05-25		Analyzed	By:	MT	
TPH GRO			yzed:				By:	-	
TPH GRO 37547 32547		Date Anal Sample Pr RL	yzed:	2007-05-25 2007-05-25		Analyzed Prepared	By:	MT MT	
TPH GRO 37547		Date Anal Sample Pr RL Result	yzed:	2007-05-25 2007-05-25 Units		Analyzed Prepared Dilution	By:	MT MT R	
TPH GRO 37547 32547		Date Anal Sample Pr RL	yzed:	2007-05-25 2007-05-25		Analyzed Prepared Dilution 1	By: By:	MT MT <u>R</u> 1.0	
TPH GRO 37547 32547	Flag	Date Anal Sample Pr RL Result	yzed:	2007-05-25 2007-05-25 Units	Spike	Analyzed Prepared Dilution 1 Percent	By: By: Ree		
	D 0 continued Flag me (TFT) obenzene (4-BFB) 5590 - SB8 @ 39' Chloride (IC) 38352 33202 Flag 5590 - SB8 @ 39' TPH DRO 37555 32551 Flag Flag	0 continued Flag Flag Plag Plag Plag S590 - SB8 @ 39' Chloride (IC) 38352 33202 Flag S590 - SB8 @ 39' TPH DRO 37555 32551 Flag Flag	$0 \ continued \dots$ $Flag Result$ $re (TFT) 0.14$ $re (TFT) 1.14$ $rote (IC) 1.04$ $Flag Result$ $re (IC) 1.04$ $Flag Result$ $re (IC) 1.04$ RL $re (IC) 1.04$ $re (IC) 1.04$ RL $re (IC) 1.04$ $re (I$	D State M SV 0 continued RL Flag Result <0.0100	D State M SWD 0 continued RL Flag Result Units State M SWD Vision Main Second State Plag Result Units Dilution me (TFT) 1.14 mg/Kg 1 obenzene (4-BFB) 1.04 mg/Kg 1 5590 - SB8 @ 39' Chloride (IC) Analytical Method: E 300.0 38352 Date Analyzed: 2007-06-2 33202 Sample Preparation: 2007-06-2 RL Flag Result Units Flag Result Units 5590 - SB8 @ 39' State Method: Mod. 8015 S7555 Date Analyzed: 2007-05-26 32551 Sample Preparation: 2007-05-25 Flag Result Units Flag Result Units Flag Result Units Flag Result Units Flag Result Units	D State M SWD 0 continued RL Flag Result Units Flag Result Units me (TFT) 1.14 mg/Kg 1 obenzene (4-BFB) 1.04 mg/Kg 1 1.00 5590 - SB8 @ 39' Chloride (IC) Analytical Method: E 300.0 38352 Date Analyzed: 2007-06-20 33202 Sample Preparation: 2007-06-19 RL Flag Result Units 263 mg/Kg 5590 - SB8 @ 39' Spike TPH DRO Analytical Method: Mod. 8015B 37555 2550 - SB8 @ 39' Spike Spike Spike Flag Result Units 2007-05-26 32551 Sample Preparation: 2007-05-25 RL Flag Result Units Flag Result Units Spike Flag Result Units Spike	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D State M SWD Bucke 0 continued C RE Flag Result Units Dilution <0.0100	

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

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Report Date: June 20, 20 State M SWD	007	Wa	ork Order: 7 State M SV				ber: 46 of 71 Buckeye,NM
sample continued		Dec. 14	77.1	T \1, 17 - 17	Spike	Percent	Recovery Limits
Surrogate 4-Bromofluorobenzene (4-	Flag	Result 1.14	Units	Dilution 1	Amount 1.00	Recovery 114	10 - 227
4-Diomontoropenzene (4-	-DFD)	1.14	mg/Kg	۔ 	1.00		
Method Blank (1)	QC Batch: 37541						
QC Batch: 37541 Prep Batch: 32545		Date Ana QC Prepa	alyzed: 200 aration: 200	07-03-25 07-05-25		Analyze Prepare	
Parameter	Flag		MD Resu		Unit	iS.	RL
Benzene			<0.0033		mg/ł		0.01
Toluene			<0.0037		mg/H		0.01
Ethylbenzene			< 0.0020)6	mg/H		0.01
Xylene			<0.0025	59	mg/H		0.01
S		Daardt	Units	Dibution	Spike	Percent	Recovery Limits
Surrogate	Flag	Result		Dilution	Amount 1.00	Recovery 101	73.2 - 113
Triffuorateluone (TET)							10.2 - 110
4-Bromofiuorobenzene (4	-BFB) QC Batch: 37543	1.01 0.724	mg/Kg mg/Kg	1	1.00	72	54 - 102
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543			mg/Kg alyzed: 20				54 - 102 ed By: MT
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543		0.724 Date Ana	mg/Kg alyzed: 20	07-05-25		72 Analyze	54 - 102 ed By: MT
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545		0.724 Date Ana	mg/Kg alyzed: 20 aration: 20	07-05-25		72 Analyze Prepare	54 - 102 ed By: MT ed By: MT
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter	QC Batch: 37543	0.724 Date Ana	mg/Kg alyzed: 20 aration: 20 MDL	07-05-25	1.00	72 Analyze Prepare	54 - 102 ed By: MT ed By: MT
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO	QC Batch: 37543	0.724 Date Ana	mg/Kg alyzed: 20 aration: 20 MDL Result	07-05-25	1.00 Unit	72 Analyze Prepare	54 - 102 ed By: MT ed By: MT RE Recovery Limits
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT)	QC Batch: 37543 Flag	0.724 Date Ana QC Prepa Result	mg/Kg alyzed: 20 aration: 20 MDL Result <0.459	1 07-05-25 07-05-25	1.00 Unit mg/F Spike Amount 1.00	72 Analyze Prepare s g Percent Recovery 109	54 - 102 ed By: MT ed By: MT <u>RL</u> 1 Recovery Limits
	QC Batch: 37543 Flag	0.724 Date Ana QC Prepa	mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units	1 07-05-25 07-05-25 Dilution	1.00 Unit mg/F Spike Amount	72 Analyze Prepare s g Percent Recovery	54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 125
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT)	QC Batch: 37543 Flag	0.724 Date Ana QC Prepa Result	mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg	1 07-05-25 07-05-25 Dilution 1	1.00 Unit mg/F Spike Amount 1.00	72 Analyze Prepare s g Percent Recovery 109	54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 125
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4	QC Batch: 37543 Flag Flag -BFB)	0.724 Date Ana QC Prepa Result	mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20	1 07-05-25 07-05-25 Dilution 1	1.00 Unit mg/F Spike Amount 1.00	72 Analyze Prepare s g Percent Recovery 109	54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 123 51.9 - 110 ed By: MT
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37546 Prep Batch: 32547	QC Batch: 37543 Flag Flag -BFB) QC Batch: 37546	0.724 Date Ana QC Prepa Result 1.09 0.787 Date Ana	mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 aration: 20	1 07-05-25 07-05-25 Dilution 1 1 1 007-05-25 007-05-25 0L	1.00 Unit mg/K Spike Amount 1.00 1.00	72 Analyz Prepare s 2g Percent Recovery 109 79 79 Analyz Prepare	54 - 102 ed By: MT ed By: MT <u>RL</u> 1 <u>Recovery Limits</u> 73.2 - 123 51.9 - 110 ed By: MT ed By: MT
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37546 Prep Batch: 32547 Parameter	QC Batch: 37543 Flag Flag -BFB)	0.724 Date Ana QC Prepa Result 1.09 0.787 Date Ana	mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 aration: 20	1 07-05-25 07-05-25 Dilution 1 1 1 007-05-25 007-05-25 01 01t	1.00 Unit mg/F Spike Amount 1.00 1.00	72 Analyza Prepare s 2g Percent Recovery 109 79 79 79 Analyz Prepare	54 - 102 ed By: MT ed By: MT <u>RL</u> 1 <u>Recovery Limits</u> 73.2 - 123 51.9 - 110 ed By: MT ed By: MT
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37546	QC Batch: 37543 Flag Flag -BFB) QC Batch: 37546	0.724 Date Ana QC Prepa Result 1.09 0.787 Date Ana	mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 aration: 20 MD Resu	1 07-05-25 07-05-25 Dilution 1 1 007-05-25 007-05-25 01 1 1 33	1.00 Unit mg/K Spike Amount 1.00 1.00	72 Analyza Prepare s Percent Recovery 109 79 79 Analyz Prepare ts Kg	54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 125 51.9 - 110 ed By: MT ed By: MT ed By: MT
4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37543 Prep Batch: 32545 Parameter GRO Surrogate Trifluorotoluene (TFT) 4-Bromofiuorobenzene (4 Method Blank (1) QC Batch: 37546 Prep Batch: 32547 Parameter Benzene	QC Batch: 37543 Flag Flag -BFB) QC Batch: 37546	0.724 Date Ana QC Prepa Result 1.09 0.787 Date Ana	mg/Kg alyzed: 20 aration: 20 MDL Result <0.459 Units mg/Kg mg/Kg alyzed: 20 aration: 20 MD Resu <0.003;	1 07-05-25 07-05-25 Dilution 1 1 007-05-25 007-05-25 01 1 1 33 72 06	1.00 Unit mg/F Spike Amount 1.00 1.00 Uni mg/F	72 Analyze Prepare s Vg Percent Recovery 109 79 79 Xnalyz Prepare ts Kg Kg	54 - 102 ed By: MT ed By: MT RL 1 Recovery Limits 73.2 - 125 51.9 - 110 ed By: MT

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Report Date: June 20, 2 State M SWD			ork Order: 7 State M SV			Page Num	ber: 47 of 7 Buckeye.NM
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	10 m m h	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		¢	· ·			e e e e e e e e e e e e e e e e e e e
QC Batch: 37547	·	Date Ana	lvzed: 200	07-05-25		Analyze	ed By: MT
Prep Batch: 32547			aration: 200	07-05-25		Prepare	ed By: MT
			MDL		T 7 1/		זמ
Parameter GRO	Flag		Result <0.459		Units mg/K		R1
			<0.409				
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	73.2 - 12
4-Bromofluorobenzene (4	-BFB)	0.736	mg/Kg	1	1.00	74	51.9 - 11
Method Blank (1) QC Batch: 37548	QC Batch: 37548	Doto And	duradi 20	07-05-25		Analyze	ed By: MT
•		Date Ana QC Prepa		07-05-25		Prepare	
Prep Batch: 32548	Flor		aration: 20 MD	07-05-25 L	Florid	Prepare	ed By: MI
Prep Batch: 32548 Parameter	Flag		aration: 20 MD Resu	07-05-25 L lt	Unit mg/J	Prepare	ed By: MI RI
Prep Batch: 32548 Parameter Benzene	Flag		aration: 20 MD	07-05-25 L lt 33	mg/H	Prepare ts Xg	ed By: MI
Prep Batch: 32548 Parameter Benzene Toluene	Flag		aration: 20 MD Resu <0.0033	07-05-25 L lt 33 72		Prepare ts Xg Xg	ed By: MI RI 0.0 0.0
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene	Flag		aration: 20 MD Resu <0.0033 <0.0037	07-05-25 L lt 33 72 06	mg/I mg/I	Prepare ts Xg Xg	ed By: MI
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene		QC Prep	Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025	07-05-25 L lt 33 72 06 59	mg/I mg/I mg/I mg/I Spike	Prepare ts Xg Xg Xg Percent	ed By: MT
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	Flag Flag	QC Prepa	aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025 Units	07-05-25 L lt 33 72 06 59 Dilution	mg/H mg/H mg/H Spike Amount	Prepare ts Xg Xg Xg Percent Recovery	ed By: MT RI 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Execover Limits
Prep Batch: 37548 Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4	Flag	QC Prep	Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025	07-05-25 L lt 33 72 06 59	mg/I mg/I mg/I mg/I Spike	Prepare ts Xg Xg Xg Percent	ed By: MT RI 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Kecover, Limits 73.2 - 11
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT)	Flag	QC Prepa Result. 0.854	Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0020 <0.0025 Units mg/Kg	07-05-25 L lt 33 72 06 59 Dilution 1	mg/I mg/I mg/I mg/I Spike Amount 1.00	Prepare ^{Xg} ^{Xg} <u>Xg</u> <u>Percent</u> <u>Recovery</u> <u>85</u>	ed By: MT RI 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Kecover, Limits 73.2 - 11
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4	Flag I-BFB)	QC Prepa Result. 0.854	aration: 20 MD Resu <0.0033 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg	07-05-25 L lt 33 72 06 59 Dilution 1	mg/I mg/I mg/I mg/I Spike Amount 1.00	Prepare ^{Xg} ^{Xg} <u>Xg</u> <u>Percent</u> <u>Recovery</u> <u>85</u>	ed By: MT RI 0.0 0.0 0.0 0.0 Recover, Limits 73.2 - 11 54 - 102
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548	Flag I-BFB) QC Batch: 37549	QC Prepa Result 0.854 0.653 Date Ana	Aration: 20 MD Resu <0.0033 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg alyzed: 20 Aration: 20	07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25	mg/I mg/I mg/I Spike Amount 1.00 1.00	Prepare	ed By: MT RI 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548 Parameter	Flag I-BFB)	QC Prepa Result 0.854 0.653 Date Ana	Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg allyzed: 20 Aration: 20 MDL Result	07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25	mg/I mg/I mg/I Spike Amount 1.00 1.00	Prepare ts Xg Xg Xg Percent Recovery 85 65 Analyze Prepare s	ed By: MT RI 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT ed By: MT
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548	Flag I-BFB) QC Batch: 37549	QC Prepa Result 0.854 0.653 Date Ana	Aration: 20 MD Resu <0.0033 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg alyzed: 20 Aration: 20	07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25	mg/I mg/I mg/I Spike Amount 1.00 1.00	Prepare ts Xg Xg Xg Percent Recovery 85 65 Analyze Prepare s	ed By: MT RI 0.0 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT ed By: MT
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548 Parameter GRO	Flag I-BFB) QC Batch: 37549 Flag	QC Prepa Result 0.854 0.653 Date Ana QC Prepa	aration: 20 MD Resu <0.0033 <0.0037 <0.0025 Units mg/Kg mg/Kg mg/Kg ulyzed: 20 aration: 20 MDL Result <0.459	07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25 07-05-25	mg/I mg/I mg/I Spike Amount 1.00 1.00 Unit mg/F Spike	Prepare Xg Xg Yg Percent Recovery 85 65 Analyze Prepare s Xg Percent	ed By: MT RI 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT ed By: MT Recovery
Prep Batch: 32548 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifiuorotoluene (TFT) 4-Bromofluorobenzene (4 Method Blank (1) QC Batch: 37549 Prep Batch: 32548 Parameter	Flag I-BFB) QC Batch: 37549	QC Prepa Result 0.854 0.653 Date Ana	Aration: 20 MD Resu <0.0033 <0.0037 <0.0020 <0.0025 Units mg/Kg mg/Kg mg/Kg allyzed: 20 Aration: 20 MDL Result	07-05-25 L lt 33 72 06 59 Dilution 1 1 07-05-25	mg/H mg/H mg/H Spike Amount 1.00 1.00 Unit mg/H	Prepare ts Xg Xg Xg Yercent Recovery 85 65 Analyze Prepare s Xg	ed By: MT RI 0.0 0.0 0.0 0.0 Recovery Limits 73.2 - 11 54 - 102 ed By: MT ed By: MT ed By: MT ed By: MT

State M SWD	20, 2007			ler: 7052526 M SWD		Page Nu	mber: 48 Buckey	
Method Blank (1)	QC	Batch: 37553						
QC Batch: 37553			Date Analyzed:	2007-05-26		Analy	zed By:	ΤG
Prep Batch: 32551			QC Preparation:				red By:	ΤG
			N	IDL				
Parameter		Flag		sult	τ	Units	·	\mathbf{RI}
DRO			<	10.7	m	ig/Kg		5(
					Spike	Percent	Rec	overy
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery		nits
n-Triacontane		228	_mg/Kg	1	150	152	62.5	- 164
Method Blank (1)	QC	Batch: 37554						
QC Batch: 37554 Prep Batch: 32551			Date Analyzed: QC Preparation	2007-05-26 : 2007-05-25			rzed By: red By:	TG TG
•				ADL				
Parameter DRO		Flag		esult		Units		$\frac{R}{50}$
				10.7	11	ng/Kg		
-			 .		Spike	Percent		over
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Lii	mits
		243	mg/Kg	1	150	162	62.5	
n-Triacontane							62.5	
n-Triacontane Method Blank (1) QC Batch: 37555		243		1 2007-05-26		162 Analy	62.5 vzed By: ared By:	- 16 TG
n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551		243 Batch: 37555	mg/Kg Date Analyzed: QC Preparation N	1 2007-05-26 : 2007-05-25 4DL	150	162 Analy Prepa	zed By:	- 16 TG TG
n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter		243	mg/Kg Date Analyzed: QC Preparation M Re	1 2007-05-26 : 2007-05-25 4DL esult	150	162 Analy Prepa Units	zed By:	- 16 TG TG RJ
n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter		243 Batch: 37555	mg/Kg Date Analyzed: QC Preparation M Re	1 2007-05-26 : 2007-05-25 4DL	150	162 Analy Prepa	zed By:	- 16 TG TG RJ
n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO	QC	243 Batch: 37555 Flag	mg/Kg Date Analyzed: QC Preparation N Re <	1 2007-05-26 : 2007-05-25 4DL esult 10.7	150 n Spike	162 Analy Prepa Units 1g/Kg Percent	rzed By: ured By: Rec	- 16 TG TG RJ 50 overy
n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate		243 Batch: 37555 Flag Result	mg/Kg Date Analyzed: QC Preparation N Re Units	1 2007-05-26 : 2007-05-25 4DL esult 10.7 Dilution	150 n Spike Amount	162 Analy Prepa Units ng/Kg Percent Recovery	rzed By: ured By: Rec Li:	- 16 TG TG RI 50 over; mits
n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane	QC Flag	243 Batch: 37555 Flag Result 235	mg/Kg Date Analyzed: QC Preparation N Re <	1 2007-05-26 : 2007-05-25 4DL esult 10.7	150 n Spike	162 Analy Prepa Units 1g/Kg Percent	rzed By: ured By: Rec Li:	- 16 TG TG R: 50 over; mits
n-Triacontane Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1)	QC Flag	243 Batch: 37555 Flag Result	mg/Kg Date Analyzed: QC Preparation M Re 	1 2007-05-26 : 2007-05-25 4DL esult 10.7 Dilution 1	150 n Spike Amount	162 Analy Prepa Units ng/Kg Percent Recovery 157	rzed By: ared By: Rec Li: 62.5	TG TG TG R: 50 over; - 16
Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618	QC Flag	243 Batch: 37555 Flag Result 235	mg/Kg Date Analyzed: QC Preparation M Re Units mg/Kg Date Analyzed:	1 2007-05-26 : 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29	150 n Spike Amount	162 Analy Prepa Units ng/Kg Percent Recovery 157 Analy	vzed By: ared By: Rec Li: 62.5 vzed By:	TG TG TG Si overy mits - 16
Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618	QC Flag	243 Batch: 37555 Flag Result 235	mg/Kg Date Analyzed: QC Preparation M Re 	1 2007-05-26 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 2007-05-29 2007-05-29	150 n Spike Amount	162 Analy Prepa Units ng/Kg Percent Recovery 157 Analy	rzed By: ared By: Rec Li: 62.5	TG TG TG R: 50 over; mits - 16 KE
Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 Prep Batch: 32598	QC Flag	243 Batch: 37555 Flag Result 235 Batch: 37618	mg/Kg Date Analyzed: QC Preparation N Re Units mg/Kg Date Analyzed: QC Preparation	1 2007-05-26 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 2007-05-29 2007-05-29 MDL	150 n Spike Amount	162 Analy Prepa Units <u>ng/Kg</u> Percent <u>Recovery</u> 157 Analy Prepa	vzed By: ared By: Rec Li: 62.5 vzed By:	- 16 TG TG Si over; mits - 16 KE KE
Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 Prep Batch: 32598 Parameter	QC Flag	243 Batch: 37555 Flag Result 235	mg/Kg Date Analyzed: QC Preparation N Re Units mg/Kg Date Analyzed: QC Preparation	1 2007-05-26 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 2007-05-29 2007-05-29 MDL Result	150 n Spike Amount 150	162 Analy Prepa Units <u>ng/Kg</u> Percent <u>Recovery</u> 157 Analy Prepa Units	vzed By: ared By: Rec Li: 62.5 vzed By:	- 16 TG TG Si over; mits - 16 KE KE
Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 Prep Batch: 32598 Parameter Benzene	QC Flag	243 Batch: 37555 Flag Result 235 Batch: 37618	mg/Kg Date Analyzed: QC Preparation M Re Units mg/Kg Date Analyzed: QC Preparation	1 2007-05-26 2007-05-25 ADL esult 10.7 Dilution 1 2007-05-29 x 2007-05-29 MDL Result 0.00333	n Spike Amount 150	162 Analy Prepa Units ng/Kg Percent Recovery 157 Analy Prepa Units mg/Kg	vzed By: ared By: Rec Li: 62.5 vzed By:	- 16 TG TG S 0 very mits - 16 KB KB KB KB
Method Blank (1) QC Batch: 37555 Prep Batch: 32551 Parameter DRO Surrogate n-Triacontane Method Blank (1) QC Batch: 37618 Prep Batch: 32598 Parameter	QC Flag	243 Batch: 37555 Flag Result 235 Batch: 37618	mg/Kg Date Analyzed: QC Preparation M Re Units mg/Kg Date Analyzed: QC Preparation	1 2007-05-26 2007-05-25 4DL esult 10.7 Dilution 1 2007-05-29 2007-05-29 2007-05-29 MDL Result	n Spike Amount 150	162 Analy Prepa Units <u>ng/Kg</u> Percent <u>Recovery</u> 157 Analy Prepa Units	vzed By: ared By: Rec Li: 62.5 vzed By:	- 16 TG TG Si over; mits - 16 KE KE

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Surrogate	Flag	Result	Units	Dilution		Percent Recovery	Recovery Limits 73.2 - 113
Trifluorotoluene (TFT) 4-Bromofluorobenzene		0.882 0.600	mg/Kg mg/Kg	1 · 1	1.00 1.00	88 60	73.2 - 113 54 - 102
	(
Method Blank (1)	QC Batch: 37619						
QC Batch: 37619 Prep Batch: 32598		Date Anal QC Prepa		07-05-29 07-05-29		Analyz Prepar	
Parameter	Flag		MDL Result		Uni		RL
GRO			< 0.459		mg/	Kg	1
Surrogate	Flag	Result	Units	Dilution		Percent Recovery	Recovery Limits
Trifluorotoluene (TFT) 4-Bromofluorobenzene		1.01 0.689	mg/Kg mg/Kg	1	1.00 1.00	101 69	73.2 - 125 51.9 - 110
QC Batch: 37678	QC Batch: 37678	Date Anal QC Prepa				Analyz Prepar	ed By: TG ed By: TG
QC Batch: 37678 Prep Batch: 32609			ration: 20 MDL		Uni	Prepar	
QC Batch: 37678 Prep Batch: 32609 Parameter	QC Batch: 37678 Flag		ration: 20		Uni mg/	Prepar	red By: TG
Prep Batch: 32609 Parameter DRO Surrogate F	Flag Flag Result	QC Prepa	ration: 20 MDL Result <10.7 Dilu	007-05-29	mg/ Spike Amount	Prepar its Kg Percent Recovery	red By: TG RL 50 Recovery Limits
QC Batch: 37678 Prep Batch: 32609 Parameter DRO	Flag	QC Prepa	ration: 20 MDL Result <10.7 Dilu)07-05-29	mg/ Spike	Prepar its Kg Percent	ed By: TG RL 50 Recovery Limits
QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F	Flag Flag Result	QC Prepa	ration: 20 MDL Result <10.7 Dilu	007-05-29	mg/ Spike Amount	Prepar its Kg Percent Recovery	ed By: TG RL 50 Recovery Limits
QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F n-Triacontane Method Blank (1) QC Batch: 38253	Flag Flag Result 222	QC Prepa	vzed: 20	007-05-29	mg/ Spike Amount	Prepar its Kg Percent Recovery 148 Analyz	ed By: TG RL 50 Recovery Limits
QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F n-Triacontane Method Blank (1) QC Batch: 38253 Prep Batch: 33118	Flag Flag Result 222 QC Batch: 38253	QC Prepar Units mg/Kg Date Anal	vzed: 20 MDL Result 210.7 Dilu vzed: 20 ration: 20	007-05-29 ntion 1 007-06-16	mg/ Spike Amount 150	Prepar its Kg Percent Recovery 148 Analyz Prepar	red By: TG RL 50 Recovery Limits 62.5 - 164 zed By: ER red By: ER
QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F n-Triacontane Method Blank (1) QC Batch: 38253	Flag Flag Result 222	QC Prepar Units mg/Kg Date Anal	vzed: 20 vzed: 20 vzed: 20 vzed: 20	007-05-29 ntion 1 007-06-16 007-06-16	mg/ Spike Amount	Prepar its Kg Percent Recovery 148 Analy Prepar its	red By: TG RL 50 Recovery Limits 62.5 - 164 zed By: ER
QC Batch: 37678 Prep Batch: 32609 Parameter DRO Surrogate F n-Triacontane Method Blank (1) QC Batch: 38253 Prep Batch: 33118 Parameter	Flag Flag Result 222 QC Batch: 38253	QC Prepar Units mg/Kg Date Anal	vzed: 20 MDL Result <10.7 Dilu vzed: 20 ration: 20 MDL Result	007-05-29 ntion 1 007-06-16 007-06-16	mg/ Spike Amount 150 Un:	Prepar its Kg Percent Recovery 148 Analy Prepar its	red By: TG RL 50 Recovery Limits 62.5 - 164 red By: ER red By: ER RL

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Report Date: June 20, State M SWD	, 2007	Work Orde State N		6		Page	Number: 3 Buck	eye,NM
Parameter	Flag	M. Res	DL sult		Units	s		RL
Chloride		<0.	140		mg/K	g		1
Method Blank (1)	QC Batch: 38310							
QC Batch: 38310 Prep Batch: 33169		Date Analyzed: QC Preparation:	2007-06- 2007-06-				alyzed By epared By	
v .	-		DL					
Parameter	Flag	Res			Unit			RI
Chloride		<0.	140		mg/K	.g		1
Method Blank (1)	QC Batch: 38312							
QC Batch: 38312 Prep Batch: 33171		Date Analyzed: QC Preparation:	2007-06- 2007-06-				alyzed By epared By	
110) Daton. 00111		QO I IEparadoll.	2007-00-	-10			շիացը ըն	. 1916
~			DL					
	Flag	Res	sult		Unit	5		RI
		<0.	140		mg/K	5		1
Parameter Chloride Method Blank (1)	QC Batch: 38352	· ·			mg/K		anlugod Br	
Chloride		<0. Date Analyzed: QC Preparation:	2007-06-		mg/K	Aı	nalyzed By epared By	: ER
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202	QC Batch: 38352	Date Analyzed: QC Preparation: M	2007-06- 2007-06- DL			Aı Pr		: ER : ER
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter		Date Analyzed: QC Preparation: M	2007-06- 2007-06- DL sult		Unit mg/K	Ai Pr s		: ER : ER
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541	QC Batch: 38352 Flag	Date Analyzed: QC Preparation: M Res <0. Date Analyzed:	2007-06- 2007-06- DL sult 140 2007-05-	25	Unit	Ai Pr S S	alyzed By	ER ER RI 1
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control	QC Batch: 38352 Flag Spike (LCS-1)	Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation:	2007-06- 2007-06- DL sult 140	-19 25 25	Unit mg/K	Ai Pr S S An Pr	alyzed By	: ER : ER <u>RI</u> 1 : MT MT
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param	QC Batch: 38352 Flag Spike (LCS-1) LC Rest	Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: S ult Units	2007-06- 2007-06- DL sult 140 2007-05-	25 25 Spike Amount	Unit	Aı Pr S S An Pr	alyzed By epared By epared By	: ER : ER I I : MT MT Rec. Limit
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene	QC Batch: 38352 Flag Spike (LCS-1) LC Ress 1.0	Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: S ult Units 1 mg/Kg	2007-06- 2007-06- DL sult 140 2007-05- 2007-05- 2007-05- Dil. 1	25 25 25 Spike <u>Amount</u> 1.00	Unit mg/k Matri Resul <0.003	An Pr S S An Pr t 33 10	alyzed By epared By epared By ec. 01 76	: ER : ER I I : MT MT Rec. Limit 3 - 11
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene Toluene	QC Batch: 38352 Flag Spike (LCS-1) LC Rest 1.0 1.0	Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: S ult Units 1 mg/Kg 10 mg/Kg	2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1	25 25 25 Spike Amount 1.00 1.00	Unit mg/k Matri Resul <0.003 <0.003	A1 Pr 5 5 5 5 7 7 7 7 7 2 10	alyzed By epared By epared By ec. 01 76 00 77	: ER : ER I 1 : MT MT Rec. Limit 3 - 11 3 - 11
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene Ioluene Ethylbenzene	QC Batch: 38352 Flag Spike (LCS-1) LC Rest 1.0 1.0 0.96	Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: S ult Units 1 mg/Kg 10 mg/Kg 68 mg/Kg	2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 1 1	25 25 25 Spike <u>Amount</u> 1.00 1.00 1.00	Unit mg/k Matri Resul <0.003 <0.003 <0.002	A1 Pr 5g An Pr 5g X T X X X X 72 10 06 9	epared By alyzed By epared By 200 77 7 75	: ER : ER RI 1 : MT MT Rec. Limit 3 - 11 3 - 11 4 - 11
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene Toluene Ethylbenzene Xylene	QC Batch: 38352 Flag Spike (LCS-1) LC Rest 1.0 1.0 2.8	Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: QC Preparation: S alt Units 1 mg/Kg 60 mg/Kg 68 mg/Kg 68 mg/Kg	2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 1 1 1	25 25 25 Amount 1.00 1.00 1.00 3.00	Unit mg/k Matri Resul <0.003 <0.002 <0.002 <0.002	An Pr s	epared By alyzed By epared By 200 77 7 75	: ER : ER RI 1 : MT MT Rec. Limit 3 - 11 3 - 11 4 - 11
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541	QC Batch: 38352 Flag Spike (LCS-1) LC Ress 1.0 1.0 0.99 2.8 sed on the spike result.	Date Analyzed: QC Preparation: M Res <0. Date Analyzed: QC Preparation: QC Preparation: S alt Units 1 mg/Kg 60 mg/Kg 68 mg/Kg 68 mg/Kg	2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 1 1 1 1 1 1 1	25 25 25 Amount 1.00 1.00 1.00 3.00 and spike du	Unit mg/k Matri Resul <0.003 <0.002 <0.002 <0.002	An Pr s	epared By alyzed By epared By 200 77 7 75	: ER : ER RI 1 : MT MT Rec. Limit .3 - 11 .3 - 11 .4 - 11 .2 - 11
Chloride Method Blank (1) QC Batch: 38352 Prep Batch: 33202 Parameter Chloride Laboratory Control QC Batch: 37541 Prep Batch: 32545 Param Benzene Toluene Ethylbenzene Xylene	QC Batch: 38352 Flag Spike (LCS-1) LC Rest 1.0 1.0 2.8	Date Analyzed: QC Preparation: M Res <0.	2007-06- 2007-06- DL sult 140 2007-05- 2007-05- Dil. 1 1 1 1 1	25 25 25 Amount 1.00 1.00 1.00 3.00	Unit mg/k Matri Resul <0.003 <0.002 <0.002 <0.002	An Pr s	epared By alyzed By epared By 200 77 7 75	: ER : ER RI I : MT MT Rec. Limit 3 - 11 4 - 11.

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control spikes continued											
	LCSD			Spike		atrix			ec.		RPD
Param	Result	Units		Amount		esult	Rec.	Lir		RPD	Limi
Toluene		mg/Kg	-	1.00		00372	100		- 114	Û	20
Ethylbenzene	0.968	mg/K_l		1.00		00206	97		- 115	0	20
Xylene	2.89	mg/Kg	· · · · · · · · ·	3.00		00259	96		- 112	0	20
Percent recovery is based on the s	spike result.	RPD 1	s based	on the spike	ands	pike du	plicate	result.			
	LCS		LCSD			Spil		LCS	LCSI		Rec.
Surrogate	Resu		lesult	Units	Dil.	Amo		Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.93		0.953	mg/Kg	1	1.0		93	95		.5 - 11
4-Bromofluorobenzene (4-BFB)	0.88	2 (0.903	mg/Kg	1	1.0	0	88	90	68	.3 - 11
Laboratory Control Spike (Le QC Batch: 37543 Prep Batch: 32545	CS-1)		Analyzec reparatic							vzed By ared By:	
	LC	S			S	pike	Ма	atrix			R.ec.
Param	Resi		Units	Dil.		nount		sult	Rec.		Limit
ĠR0	8.9	2	mg/Kg	<u>, 1</u>		10.0	<0	.459	89	79	.6 - 1
Param GRO	Result 9.86	Unit mg/h	ig 1	10.0	<	esult 0.459	Rec. 99	Lir. 79.6		RPD 10	Lim 20
Percent recovery is based on the	spike result.	RPD i	s based	on the spike	and s	spike du	plicate	result.		•	
	LCS	3 I	LCSD			Spi	ke	LCS	LCSI)	Rec.
Surrogate	Resu	lt F)	Units	Dil.	Amo		Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.96		Result	Omus							
	0.50	6 1	0.947	mg/Kg	1	1.0		97	95	77	.1 - 11
4-Bromofluorobenzene (4-BFB)	0.89				1	1.0 1.0	0	97 89	95 89		
Laboratory Control Spike (Lo QC Batch: 37546	0.89	0 (Date	0.947	mg/Kg mg/Kg d: 2007-0-	1 5-25		0		89 Analy		.1 - 11 : M'.
Laboratory Control Spike (L QC Batch: 37546 Prep Batch: 32547	0.89 CS-1) LCS	0 (Date . QC P:	0.947 0.889 Analyzec reparatio	mg/Kg mg/Kg d: 2007-0. on: 2007-0.	1 5-25 5-25 Sp	1.0 ike	00 00 Ma	89 trix	89 Analy Prepa	78 vzed By ared By	.1 - 11 : M'. : M'. Rec.
Laboratory Control Spike (La QC Batch: 37546 Prep Batch: 32547 Param	0.89 CS-1) LCS Resu	0 (Date . QC P: S	0.947 0.889 Analyzed reparatio Units	mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil.	1 5-25 5-25 Sp Am	1.0 ike ount	00 00 Ma Re	89 trix sult	89 Analy Prepa Rec.	78 vzed By ared By	.1 - 11 : M'. : M'. Rec. Limit
Prep Batch: 32547 Param Benzene	0.89 CS-1) LCS Resu 1.01	0 (Date - QC Pr S It	0.947 0.889 Analyzeo reparatio Units mg/Kg	mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1	1 5-25 5-25 Sp <u>Am</u> 1.	ike ount 00	00 00 Ma Re <0.0	89 trix sult 00333	89 Analy Prepa Rec. 101	78 vzed By ared By 76	.1 - 11 : M' : M' : M' : Rec. Limit .3 - 11
Laboratory Control Spike (La QC Batch: 37546 Prep Batch: 32547 Param	0.89 CS-1) LCS Resu	0 0 Date . QC Pr S It I 7	0.947 0.889 Analyzeo reparatio Units mg/Kg mg/Kg	mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1	1 5-25 5-25 Sp Am 1.	1.0 ike ount 00 00	00 00 Ma Re <0.0 <0.0	89 trix sult 00333 00372	89 Analy Prepa Rec. 101 99	78 vzed By ared By 76 77	.1 - 1: : M' : M' : M' : M' : : M' : : : M' : : : : : : : : : : : : :
Laboratory Control Spike (L QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene	0.89 CS-1) LCS Resu 1.01 0.98	0 (Date . QC Pr S It 7 8	0.947 0.889 Analyzeo reparatio Units mg/Kg	mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1	1 5-25 5-25 Am 1. 1.	ike ount 00	00 00 Ma Re <0.0 <0.0 <0.0	89 trix sult 00333	89 Analy Prepa Rec. 101	78 vzed By ared By 76 77 73	.1 - 1: : M' : M' Rec. Limit .3 - 1 .3 - 1 .4 - 1
Laboratory Control Spike (La QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene	0.89 CS-1) LCS Resu 1.01 0.98 0.94 2.82	0 (Date . QC P: 5 llt 7 8 2	0.947 0.889 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg	mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 1 1	1 5-25 5-25 Am 1. 1. 3.	1.0 ike ount 00 00 00 00	Ma Re <0.0 <0.0 <0.0 <0.0	89 trix sult 00333 00372 00206 00259	89 Analy Prepa Rec. 101 99 95	78 vzed By ared By 76 77 73	.1 - 1: : M' : M' Rec. Limit .3 - 1 .3 - 1 .4 - 1
Laboratory Control Spike (L QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene	0.89 CS-1) LCS Resu 1.01 0.98 0.94 2.82	0 (Date . QC P: 5 llt 7 8 2	0.947 0.889 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg	mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 1 1 0 the spike	1 5-25 5-25 Sp <u>Am</u> 1. 1. 1. 3. e and s	ike ount 00 00 00 00 00 00	Ma Re <0.0 <0.0 <0.0 <0.0	89 trix sult 00333 00372 00206 00259 : result.	89 Analy Prepa Rec. 101 99 95 94	78 vzed By ared By 76 77 73	.1 - 11 : M ⁷ : M ⁷
Laboratory Control Spike (La QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene	0.89 CS-1) LCS Resu 1.01 0.98 0.94 2.82 spike result.	0 (Date . QC P: 5 llt 7 8 2	0.947 0.889 Analyzed reparatio mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 1 1 0 the spike	1 5-25 5-25 Am 1. 1. 3. e and s	1.0 ike ount 00 00 00 00 00	Ma Re <0.0 <0.0 <0.0 <0.0	89 trix sult 00333 00372 00206 00259 : result. R	89 Analy Prepa Rec. 101 99 95	78 vzed By ared By 76 77 73	: MT Rec.
Laboratory Control Spike (Le QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the s	0.89 CS-1) LCS Resu 1.01 0.98 0.94 2.83 spike result. LCSD	Date . QC P: G llt RPD i	0.947 0.889 Analyzed reparatio Units mg/Kg mg/Kg mg/Kg mg/Kg is based s Dil.	mg/Kg mg/Kg d: 2007-0. on: 2007-0. Dil. 1 1 1 1 1 0 the spike	1 5-25 5-25 Sp Am 1. 1. 3. 2 and 1 M R	ike ount 00 00 00 00 spike du atrix:	00 00 Ma Re <0.0 <0.0 <0.0 plicate	89 trix sult 00333 00372 00206 00259 e result. R Lin	89 Analy Prepa Rec. 101 99 95 94 ec.	78 vzed By ared By 76 77 73 73	.1 - 11 : M ⁷ : Rec. Limit : 3 - 11 : 3 - 11 : 4 - 11 : 2 - 11 : RP ¹

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control spikes continued	1.000			0.11				n			חתת
Param	LCSD Result	Units	Dil.	Spike Amount		atrix sult	Rec.	Re Lin		RPD	RPD Limit
Ethylbenzene	0.953	mg/K		1.00		00206	<u>95</u>	75.4		$\frac{10}{0}$	20
Xylene	2.84	mg/K		3.00		00200	95 95	73.2		1	20
Percent recovery is based on the s							plicate				
	LC	s I	LCSD			Spi	ke	LCS	LCSE)	Rec.
Surrogate	Res	ult F	Result	Units	Dil.	Amo	unt	Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.84	13	0.917	mg/Kg	1	1.0	10	84	92	74	.5 - 113
4-Bromofluorobenzene (4-BFB)	0.85	25	0.884	mg/Kg	1	1.0	0	82	88	68	.3 - 110
Laboratory Control Spike (LG QC Batch: 37547 Prep Batch: 32547	CS-1)		Analyzec reparatic						•	zed By red By	
	L				S	pike		atrix			Rec.
Param	Res		Units	Dil.		ount		esult	Rec.		Limit
GRO	8.	66	mg/Kg	1	1	0.0	(1.459	87	79	.6 - 11
Param GRO	LCSD Result 9.60	Unit mg/H		Spike Amoun 10.0	it R	atrix esult).459	Rec. 96	Re Lin 79.6 -	nit	RPD 10	RPI Limi 20
Percent recovery is based on the s	·										
	LC	S I	LCSD			- Spi	ke	LCS	LCSI)	Rec.
Surrogate	Res		Result	Units	Dil.	Amo		Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.9	00	0.984	mg/Kg	1	1.()0	90	98	77	.1 - 11
4-Bromofluorobenzene (4-BFB)	0.8	33	0.904	mg/Kg	1	1.0	00	83	90	78	.1 - 11
Laboratory Control Spike (Lo QC Batch: 37548 Prep Batch: 32548	CS-1)		Analyzeo reparatio						•	•	n MT MT
_					Spi			trix			Rec.
Param	Res		Units	Dil	Amo			sult	Rec.		Limit
Benzene Toluene	0.9		mg/Kg	1	1.(0333	- <u>98</u> 05		5.3 - 11
Ethylbenzene	0.9 0.9		mg/Kg mg/Kg	1 1	1.(1.(00372 00206	95 90		.3 - 11 .4 - 11
Xylene	2.7		mg/Kg	1	3.(0259	90 90		.2 - 11:
Percent recovery is based on the											
	LCSD			Spike	M	atrix		R	ec.		RPI
Param	Result	Units		Amount	R	esult	Rec.	Li	mit	RPD	Limi
Benzene	0.942	mg/K		1.00		00333	94		- 117	4	20
	0.017	/			- 0	000000	00	. 77 2	- 114	•	20
Toluene Ethylbenzene	$0.917 \\ 0.875$	mg/K mg/K		$\begin{array}{c} 1.00 \\ 1.00 \end{array}$		00372 00206	92 88		- 114 - 115	ვ ვ	20 20

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										<u></u>	
control spikes continued	T COD			0.3	24			Ŧ)		നനന
Param	LCSD Result	Units	Dil.	Spike	Mat Res		Rec.		Rec. imit	RPD	RPD Limi
Xylene	2.62	mg/Kg		Amount 3.00	<0.0		<u>87</u>		2 - 112	$\frac{111D}{3}$	20
Percent recovery is based on th											
	LC		CSD			Spi		LCS	LCSE		Rec.
Surrogate	Res		esult.	Units	Dil.	Amo		Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.84		.858	mg/Kg	1	1.0		84	80		.5 - 11
4-Bromofluorobenzene (4-BFB			.821	mg/Kg	1	1.0		82	82		.3 - 11
Laboratory Control Spike	(LCS-1)										
QC Batch: 37549		Date A	nalyzed	l: 2007-0	5-25				Analy	zed By	: MT
Prep Batch: 32548		QC Pre	eparatio	on: 2007-0	5-25				Prepa	red By	: MT
	L	rs			Sp	ike	Ms	ıtrix			Rec.
Param	Res		Units	Dil.	Ame			sult	Rec.		Limit
GRO	8.		mg/Kg			1.()		.459	90		.6 - 11
Percent recovery is based on t	he spike result				e and sp	ike du	plicate	result			
	LCSD			Spike	Ma	trix		F	lec.		RPI
Param	Result	Units	Dil	•		sult	Rec.	L	imit	RPD	Limi
GRO	9.39	mg/Kg	g 1	10.0	<0	459	94	79.6	3 - 113	5	20
						ike du		result	 ;.		
Percent recovery is based on t	he spike result	. RPD is	based				plicate)	Ber
Percent recovery is based on t	he spike result LC	. RPD is	based (CSD	on the spike	e and sp	Spi	plicate ke	LCS	LCSI		Rec. Linit
Percent recovery is based on t Surrogate	he spike result LC Res	. RPD is S Lo ult Ro	based o CSD esult	on the spike Units	e and sp Dil.	Spi Amo	plicate ke vunt	LCS Rec.	LCSI Rec.		Limit
Percent recovery is based on t Surrogate Trifluorotoluene (TFT)	he spike result LC Res 0.9	. RPD is S Lo ult Ro 37 0	based (CSD	on the spike	e and sp	Spi	plicate ke ount	LCS	LCSI	77	Limit .1 - 11
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553	he spike result LC Res 0.9) 0.8	RPD is Luit Ru 37 0 93 0 Date A	based CSD esult .957	on the spike Units mg/Kg mg/Kg d: 2007-0	2 and sp Dil. 1 1 3-26	Spi Amo 1.(plicate ke ount	LCS Rec. 94	LCSI Rec. 96 90 Anal	77	Limit .1 - 11 .1 - 11
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551	he spike result LC Res 0.9 () 0.8 (LCS-1)	RPD is S Lo ult Ra 37 0 93 0 Date A QC Pr	based o CSD esult .957 .902 malyzed eparatic	Units mg/Kg mg/Kg d: 2007-0	e and sp Dil. 1 1 5-26 5-25 Sp	Spi Amo 1.(1.(plicate ke unt 00 00 Ma	LCS Rec. 94 89	LCSI Rec. 90 90 Analy Prepa	77 78 vzed By ared By	Limit .1 - 11 .1 - 11. .: TG :: TG Rec.
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param	he spike result LC Res 0.9 (LCS-1) LC Res	RPD is S Lo ult Ra 37 0 93 0 Date A QC Pr CS sult	based of CSD esult .957 .902 analyzed eparatic Units	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil.	e and sp Dil. 1 1 5-26 5-25 Sp Am	Spi Amo 1.(1.(ike	plicate ke unt 00 00 Ma Re	LCS Rec. 94 89	LCSI Rec. 96 90 Anal Prepa Rec.	77 78 vzed By ared By	Limit .1 - 11 .1 - 11 TG :: TG Rec. Limit
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO	he spike result LC Res 0.9 0) 0.8 (LCS-1) LC Res 2	. RPD is S Lo ult Ro 37 0 93 0 Date A QC Pro CS Sult 20	based of CSD esult .957 .902 	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil.	e and sp Dil. 1 5-26 5-25 Sp Am 2	Spi Amo 1.(1.(ike ount 50	plicate ke junt j0 j0 j0 ma Re Ke	LCS Rec. 94 89 sult	LCSI Rec. 96 90 Analy Prepa Rec. 88	77 78 vzed By ared By	Limit .1 - 11 .1 - 11 TG : TG Rec. Limit
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO	he spike result LC Res 0.9 0) 0.8 (LCS-1) LC Res 2	. RPD is S Lo ult Ro 37 0 93 0 Date A QC Pro CS Sult 20	based of CSD esult .957 .902 	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil.	e and sp Dil. 1 5-26 5-25 Sp Am 2	Spi Amo 1.(1.(ike ount 50	plicate ke junt j0 j0 j0 ma Re Ke	LCS Rec. 94 89 sult	LCSI Rec. 96 90 Analy Prepa Rec. 88	77 78 vzed By ared By	Limit .1 - 11 .1 - 11 TG : TG Rec. Limit
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO	he spike result LC Res 0.9 0) 0.8 (LCS-1) LC Res 2	. RPD is S Lo ult Ro 37 0 93 0 Date A QC Pro CS Sult 20	based of CSD esult .957 .902 	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil.	e and sp Dil. 1 1 5-26 5-25 Sp Am 2 e and sp	Spi Amo 1.(1.(ike ount 50	plicate ke junt j0 j0 j0 ma Re Ke	LCS Rec. 94 89	LCSI Rec. 96 90 Analy Prepa Rec. 88	77 78 vzed By ared By	Limit .1 - 11 .1 - 11 .1 - 11 TG :: TG Rec. Limit 1 - 12
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on t	he spike result LC Res 0.9 0) 0.8 (LCS-1) LC Re 2 he spike result	. RPD is S Lo ult Ro 37 0 93 0 Date A QC Pro CS Sult 20	E based of CSD esult .957 .902 eparatic Units mg/Kg based of	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike	e and sp Dil. 1 1 5-26 5-25 Sp Am 2 e and sp Ma	Spi Amo 1.(1.0 ike ount 50 ike du	plicate ke junt j0 j0 j0 ma Re Ke	LCS Rec. 94 89 atrix esult 10.7 result	LCSI Rec. 96 90 Analy Prepa Rec. 88	77 78 vzed By ared By	Limit .1 - 11 .1 - 11. .: TG :: TG Rec.
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on t Param	he spike result LC Res 0.9 0) 0.8 (LCS-1) LCSD	. RPD is S Lo ult Ro 37 0 93 0 Date A QC Pr CS sult 20 . RPD is	based of CSD esult .957 .902 analyzed eparatic Units mg/Kg based of Dil	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike	e and sp Dil. 1 3-26 5-25 Sp Am 2 e and sp ma t Re	Spi Amo 1.(1.(1.0 ike ount 50 ike du trix	plicate ke unt 00 00 Ma Re C plicate	LCS Rec. 94 89 esult 10.7 e result	LCSI Rec. 96 90 Analy Prepa Rec. 88	77 78 vzed By ared By 64	Limit .1 - 11 .1 - 11 .1 - 11 .1 - 11 Rec. Limit RPI Limi
Percent recovery is based on t Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on t Param DRO	he spike result LC Res 0.9 (LCS-1) (LCS-1) LCSD Result LCSD Result 218	RPD is S Lu ult Ru 37 0 93 0 Date A QC Pr CS sult 20 . RPD is <u>Units</u> <u>mg/K</u>	based of CSD esult .957 .902 .902 	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike Amour 250	e and sp Dil. 1 1 3-26 5-25 Sp Am 2 e and sp ma t Re <1	Spi Amo 1.(1.(1.(50 ike du .trix sult .0.7	plicate ke unt 00 00 Ma Rec plicate Rec. 87	LCS Rec. 94 89 esult 10.7 e result L 64.	LCSI Rec. 96 90 90 Analy Prepa Rec. 88 t. Rec. imit I - 124	77 78 vzed By ared By 64 RPD	Limit .1 - 11 .1 - 11 .1 - 11 .1 - 11 Rec. Limit RPI Limi
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on the Param DRO Percent recovery is based on the Param	he spike result LC Res 0.9 0.9 (LCS-1) (LCS-1) LCSD Result LCSD Result 218 he spike result	RPD is RPD is Lu ult Ru 37 0 93 0 Date A QC Pro- CS Sult 20 . RPD is mg/K, . RPD is	based of CSD esult .957 .902 .902 	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike Amour 250	e and sp Dil. 1 1 $\overline{)}$	Spi Amo 1.0 1.0 ike ount 50 ike du trix sult 0.7 ike du	plicate ke unt. 00 00 Ma Rec. 87 plicate	LCS Rec. 94 89 atrix esult 10.7 e result H L 64.3	LCSI Rec. 96 90 Analy Prepa Rec. 88 C. Rec. imit 1 - 124	77 78 vzed By ared By 64 RPD	Limit .1 - 11 .1 - 11 TG :: TG Rec. Limit 12 RPI Limi 20
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 37553 Prep Batch: 32551 Param DRO Percent recovery is based on the Param DRO Percent recovery is based on the Location of the species of the specie	he spike result LC Res 0.9 (LCS-1) (LCS-1) LCSD Result LCSD Result 218	RPD is RPD is Lult Ru 37 0 93 0 Date A QC Pr CS Sult 20 . RPD is <u>mg/K</u> . RPD is D	based of CSD esult .957 .902 .902 	Units mg/Kg mg/Kg d: 2007-0 on: 2007-0 Dil. 1 on the spike Spike Amour 250	e and sp Dil. 1 1 3-26 5-25 Sp Am 2 e and sp ma t Re <1	Spi Amo 1.(1.(1.(i.ke ount 50 i.ke du t.trix sult .0.7 i.ke du i.ke	plicate ke unt 00 00 Ma Rec plicate Rec. 87	LCS Rec. 94 89 esult 10.7 e result 10.7 e result 64. c result	LCSI Rec. 96 90 90 Analy Prepa Rec. 88 t. Rec. imit I - 124	77 78 vzed By ared By 64 RPD 1	Limit .1 - 11 .1 - 11 .1 - 11 .1 - 11 Rec. Limit RPI Limi

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Report Date: June 20, 20 State M SWD	.07		W	ork Orde State N	r: 7052520 4 SWD	j 		Page N	umber: Buc	keye.NM
Laboratory Control Sp	ike (LCS	5-1)								
QC Batch: 37554 Prep Batch: 32551			Date Ana QC Prep		2007-05-1 2007-05-1				yzed B ared B	
		LCS				Spike	Matri	i		Rec.
Param	•	Resul		Jnits	Dil.	Amount	Resu			Limit
DRO	,	229		g/Kg	1	250	<10.		64	4.1 - 124
Percent recovery is based	on the spi	ke result. 1	RPD is b	ased on t	he spike a	nd spike dı	iplicate re	sult.		
v							1			
Param		$\begin{array}{c} \mathrm{LCSD} \\ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		219	mg/Kg	1	250	<10.7		64.1 - 124	4	20
Percent recovery is based	on the spi									
- or contraction of a pased			טפו עב דיי	abed OIL	nie shive s	ara shire ar	ipicate ie			
0	LCS	LCSD				Spike	LCS	LCSD		Rec.
Surrogate	Result	Result		nits	Dil.	Amount	Rec.	Rec.		Limit
n-Triacontane	233	231	mg	/Kg		150	155	154	6:	2.5 - 164
•			Date Ana QC Prep		2007-05-: 2007-05-:				vzed B ared B	
Prep Batch: 32551		LCS	QC Prep	aration:	2007-05-:	25 Spike	Matr	Prep		y: TG Rec.
Prep Batch: 32551 Param		LCS Resu	QC Prep	aration: Jnits	2007-05-1 Dil.	25 Spike Amount	Resu	Prep ix ltRec.	ared B	y: TG Rec. Limit
Prep Batch: 32551 Param DRO	on the spi	LCS Resu 222	QC Prep i lt. U m	aration: Jnits g/Kg	2007-05-1 Dil. 1	25 Spike <u>Amount</u> 250	Resu <10.	Prep ix lt Rec. 7 89	ared B	y: TG Rec. Limit
Prep Batch: 32551 Param DRO	on the spi	LCS Resu 222 ike result. 1	QC Prep i lt. U m	aration: Jnits g/Kg	2007-05-1 Dil. 1	25 Spike <u>Amount</u> 250	Resu <10.	Prep ix lt Rec. 7 89	ared B	y: TG Rec. Limit
Prep Batch: 32551 Param DRO Percent recovery is based	on the spi	LCS Resu 222 ike result. 1 LCSD	QC Prep it U RPD is b	aration: Jnits g/Kg ased on t	Dil. 1 the spike a Spike	25 Spike <u>Amount</u> 250 Ind spike du Matrix	Resu <10. uplicate re	Prep ix <u>It Rec.</u> 7 89 esult. Rec.	ared B;	y: TG Rec. <u>Limit</u> 4.1 - 124 RPD
Prep Batch: 32551 Param DRO Percent recovery is based Param	on the spi	LCS Resu 222 ike result. 1 LCSD Result	QC Prep t Umits	aration: Jnits g/Kg ased on t Dil.	Dil. 1 the spike a Spike Amount	25 Spike Amount 250 Ind spike du Matrix Result	Resu <10. iplicate re Rec.	Prep ix <u>lt Rec.</u> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ared B	y: TG Rec. Limit 4.1 - 124 RPD Limi
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO		LCS Resu 222 ike result. 1 LCSD Result 217	QC Prep lt U RPD is b Units mg/Kg	aration: Jnits g/Kg ased on t Dil.	Dil. 1 the spike a Spike Amount 250	Spike Amount 250 Ind spike du Matrix Result <10.7	Resu <10. aplicate re Rec. 87	Prep ix 1t Rec. 7 89 ssult. Rec. Limit 64.1 - 124	ared B;	y: TG Rec. <u>Limit</u> 4.1 - 124 RPD
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO		LCS Resu 222 ike result. 1 LCSD Result 217	QC Prep lt U RPD is b Units mg/Kg	aration: Jnits g/Kg ased on t Dil.	Dil. 1 the spike a Spike Amount 250	Spike Amount 250 Ind spike du Matrix Result <10.7	Resu <10. aplicate re Rec. 87	Prep ix 1t Rec. 7 89 ssult. Rec. Limit 64.1 - 124	ared B	y: TG Rec. Limit 4.1 - 124 RPD Limi
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO	on the spi LCS	LCS Resu 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD	QC Prep lt Umits MRPD is b Units Mg/Kg RPD is b	aration: Jnits g/Kg ased on t Dil. 1 ased on t	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a	Spike Amount 250 Ind spike du Matrix Result <10.7	Resu <10. aplicate re Rec. 87	Prep ix 1t Rec. 7 89 ssult. Rec. Limit 64.1 - 124	ared B	y: TG Rec. Limit 4.1 - 12 ² RPD Limit
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate	on the spi LCS Result	LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result	QC Prep it U m RPD is b Units mg/Kg RPD is b Un	aration: Jnits g/Kg ased on t Dil. 1 ased on t nits	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil.	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount	Resu <10. aplicate re Rec. 87 aplicate re LCS Rec.	Prep ix lt Rec. 7 89 ssult. Rec. Limit 64.1 - 124 esult. LCSD Rec.	ared B	y: TG Rec. Limit 4.1 - 124 RPD Limit 20 Rec. Limit
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate	on the spi LCS	LCS Resu 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD	QC Prep it U m RPD is b Units mg/Kg RPD is b Un	aration: Jnits g/Kg ased on t Dil. 1 ased on t	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a	25 Spike Amount 250 Ind spike du Matrix Result <10.7 Ind spike du Spike	Resu <10. aplicate re Rec. 87 aplicate re LCS	Prep ix lt Rec. 7 89 ssult. Rec. Limit 64.1 - 124 esult. LCSD	ared B	y: TG Rec. Limit 4.1 - 12 RPE Limi 20 Rec. Limit
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based of	on the spi LCS Result 240	LCS Resu 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234	QC Prep it U m RPD is b Units mg/Kg RPD is b Un	aration: Jnits g/Kg ased on t Dil. 1 ased on t nits	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil.	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount	Resu <10. aplicate re Rec. 87 aplicate re LCS Rec.	Prep ix lt Rec. 7 89 ssult. Rec. Limit 64.1 - 124 esult. LCSD Rec.	ared B	y: TG Rec. Limit 4.1 - 12 RPE Limi 20 Rec. Limit
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane	on the spi LCS Result 240	LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 5-1)	QC Prep it U m RPD is b Units mg/Kg RPD is b Un	aration: Jnits g/Kg ased on t Dil. 1 ased on t nits /Kg alyzed:	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil.	25 Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150	Resu <10. aplicate re Rec. 87 aplicate re LCS Rec.	Prep ix lt Rec. 7 89 ssult. Rec. Limit 64.1 - 124 esult. LCSD Rec. 156 Anal	ared B	y: TG Rec. Limit 4.1 - 124 RPD Limit 20 Rec. Limit 2.5 - 16 y: KB
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Laboratory Control Sp QC Batch: 37618 Prep Batch: 32598	on the spi LCS Result 240	LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 S-1)	QC Prep lt U mRPD is b Units mg/Kg RPD is b Un mg Date Ana QC Prep	aration: <u>Jnits</u> <u>g/Kg</u> ased on the set of the set o	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05-	25 Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29	Resu <10. aplicate re Rec. 87 aplicate re LCS Rec. 160 Matri	Prep ix lt Rec. 7 89 esult. Rec. Limit 64.1 - 124 esult. LCSD Rec. 156 Anal Prep	Ared B 6 RPD 2 6	y: TG Rec. Limit <u>4.1 - 124</u> RPD Limit <u>20</u> Rec. Limit <u>2.5 - 164</u> y: KB y: KB Rec.
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate a-Triacontane Laboratory Control Sp QC Batch: 37618 Prep Batch: 32598 Param	on the spi LCS Result 240	LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 S-1) LCS Resul	QC Prep t Units MRPD is b Units MRPD is b Units MRPD is b Un MRPD is b Un MRPD is b Un MRPD is b Units Units MRPD is b Units	aration: <u>Jnits</u> <u>g/Kg</u> ased on a <u>Dil.</u> 1 ased on a <u>nits</u> <u>/Kg</u> alyzed: aration: nits	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05-	25 Spike Amount 250 Ind spike du Matrix Result <10.7 Ind spike du Spike Amount 150 29 29 29 29 29	Resu <pre> Rec. Rec. 87 plicate re LCS Rec. 160 Matri Resul</pre>	Prep ix <u>lt Rec.</u> 7 89 esult. <u>Rec.</u> <u>Limit</u> 64.1 - 124 esult. <u>LCSD</u> <u>Rec.</u> 156 Anal Prep	ared B 6 RPD 2 6 vzed B ared B	y: TG Rec. Limit <u>4.1 - 12</u> RPD Limit <u>20</u> Rec. Limit <u>20</u> Rec. Limit <u>20</u> Rec. Limit <u>20</u> Rec. Limit
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Laboratory Control Sp QC Batch: 37618	on the spi LCS Result 240	LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 S-1) LCS Resul 0.925	QC Prep lt U m RPD is b Units mg/Kg RPD is b Un mg QC Prep t mg	aration: Jnits g/Kg ased on the Dil. 1 ased on the hits /Kg aration: nits g/Kg	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05- 2007-05-	25 Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 29 29	Resu <pre> Rec. Rec. 87 Iplicate re LCS Rec. 160 Matri Resul <0.003 </pre>	Prep ix lt Rec. 7 89 sult. Rec. Limit 64.1 - 124 esult. LCSD Rec. 156 Anal Prep x tt Rec.	ared B 6. RPD 2 6. vzed B ared B	y: TG Rec. Limit <u>4.1 - 12</u> RPD Limit <u>20</u> Rec. Limit <u>2.5 - 16</u> y: KB y: KB y: KB Rec. Limit <u>5.3 - 11</u>
Prep Batch: 32551 Param DRO Percent recovery is based Param DRO Percent recovery is based Surrogate n-Triacontane Laboratory Control Sp QC Batch: 37618 Prep Batch: 32598 Param Benzene	on the spi LCS Result 240	LCS Resul 222 ike result. 1 LCSD Result 217 ike result. 1 LCSD Result 234 S-1) LCS Resul	QC Prep It U m RPD is b Units mg/Kg RPD is b Un mg RPD is b Un mg CPrep t mg mg t mg t mg mg	aration: <u>Jnits</u> <u>g/Kg</u> ased on a <u>Dil.</u> 1 ased on a <u>nits</u> <u>/Kg</u> alyzed: aration: nits	2007-05- Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05-	25 Spike Amount 250 Ind spike du Matrix Result <10.7 Ind spike du Spike Amount 150 29 29 29 29 29	Resu <pre> Rec. Rec. 87 plicate re LCS Rec. 160 Matri Resul</pre>	Prep ix lt Rec. 7 89 sult. Limit 64.1 - 124 esult. LCSD Rec. 156 Anal Prep x tt Rec. 33 92 90	ared B 6. RPD 2 6. vzed B ared B 76 77 77 77	y: TG Rec. Limit <u>4.1 - 124</u> RPD Limit <u>20</u> Rec. Limit <u>2.5 - 164</u> y: KB y: KB Rec.

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

Report Date: June 20, 2007 State M SWD)rder: 70525 te M SWD	26				Page Nu		5 of 71 eye.NM
Param	LCSD Result	Unita	s Dil.	Spike Amount		atrix esult	Rec.	-	ec. nit	RPD	RPD Limit
Benzene	0.972	mg/K	g 1	1.00	<0.	.00333	97	76.3	- 117	5	20
Toluene	0.950	mg/K		1.00		.00372	95	77.3	- 114	5	20
Ethylbenzene	0.907	mg/K		1.00	<0	.00206	91	75.4	- 115	5	20
Xylene	2.70	mg/K	lg 1	3.00	<0	.00259	9 0	73.2	- 112	5	2()
Percent recovery is based on the s	spike result.	RPD	is based	on the spike	and s	spike du	plicate	e result.			
Surrogate	LC Res		LCSD Result	Units	Dil.	Spi Amo		LCS Rec.	LCSE Rec.		Rec. Jimit
Trifluorotoluene (TFT)	0.83		0.927	mg/Kg	1	1.0		86	93		5 - 113
4-Bromofluorobenzene (4-BFB)	0.76		0.822	mg/Kg	1	1.(76	82		3 - 110
QC Batch: 37619 Prep Batch: 32598		QC F	Analyze Preparati		5-29					yzed By ared By:	KB
-	L					pike		atrix	-		Rec.
Param	Res		Units	Dil.		nount		esult	Rec.		imit
GRO Percent recovery is based on the s	9.		mg/Kg			10.0		0.459	92	(9.	6 - 11
Param GRO	LCSD Result 9.12	Uni mg/			t F	latrix lesult 0.459	Rec. 91	Lii	ec. nit - 113	RPD 0	RPI Limi 20
Percent recovery is based on the	spike result	. RPD	is based	on the spike	and a	spike dı	plicate	e result.			
	LC	S	LCSD			Sp	ike	LCS	LCSI)	Rec.
Surrogate	Res	ult	Result	Units	Dil.	Amo	ount	Rec.	Rec.	I	<i>i</i> mit
Trifluorotoluene (TFT)	0.9	85	0.940	mg/Kg	1	1.	00	98	94	77.	1 - 11'
4-Bromofluorobenzene (4-BFB)	0.8	70	0.819	mg/Kg	1	1.	00	87	82	78.	1 - 118
Laboratory Control Spike (L QC Batch: 37678 Prep Batch: 32609	CS-1)		Analyze Preparati							vzed By ared By	
Davar		CS	Tinita	Dil		Spike		atrix	Dec		Rec.
Param DRO		<u>sult</u> 57	Units mg/K		A	mount 250		esult 10.7	<u>Rec.</u> 103		<u>imit</u> 1 - 12
Percent recovery is based on the :					and						1 - 12
	LCSD			Spike		fatrix			ec.		RPL
Param	Result	Uni	ts Di			lesult	Rec.		nit	RPD	Limi
DRO	224	mg/		·		<10.7	90		- 124	14	20
	-	0/									
Percent recovery is based on the	spike result.	. RPD	is based	on the spike	and	spike di	plicat	e result			

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Report Date: June 20, State M SWD	2007		Work Orde State N				Page	Number Bu	ckeye,NM
control spikes continued	d								
	LCS	LCSD			Spike	LCS	LCS	D	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec		Limit
	LCS	LCSD			Spike	LCS	LCS	D	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec		Limit
-Triacontane	211	201	mg/Kg	1	150	141	134	(52.5 - 164
Laboratory Control	Spike (LCS	-1)							
QC Batch: 38253		г)ate Analyzed:	2007-06-1	6		٨	nalyzed I	By: ER
Prep Batch: 33118			QC Preparation:	2007-06-1				epared E	
		4	(C 1 Teparadon.	2007-00-1	10		د		J. Dit
		LCS			Spike	Matr	rix		Rec.
Param		Result		Dil.	Amount	Resu	iltl	Rec.	Limit
Chloride		12.3	mg/Kg	1	12.5	< 0.1	40	98	90 - 110
Percent recovery is bas	ed on the spil	æ result. R	PD is based on a	the spike a	nd spike duj	olicate res	sult.		
		LCSD		Spike	Matrix		Rec.		RPD
Param		Result	Units Dil.	Amount	Result	Rec.	Limit	RPD	Limi
Chloride Percent recovery is bas Laboratory Control		ke result. R -1)		-		101 olicate res			20
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119		ke result. R -1)		the spike a	nd spike duj 17		sult. A	2 nalyzed I repared F	By: ER
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254		ke result. R -1)	PD is based on · Date Analyzed:	the spike a	nd spike duj 17		sult. A P	nalyzed 1	By: ER
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119		ce result. R -1) C	PD is based on • Date Analyzed: QC Preparation:	the spike a	nd spike duj 17 16	olicate res	sult. A P: rix	nalyzed 1	By: ER By: ER
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param		te result. R -1) C LCS	PD is based on • Date Analyzed: QC Preparation:	the spike a 2007-06-1 2007-06-1	nd spike duj 17 16 Spike	olicate res Matu	sult. A P rix 1lt	nalyzed I repared I	By: ER By: ER Rec. Limit
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride	Spike (LCS	e result. R -1) LCS Result 12.2	PD is based on Date Analyzed: QC Preparation: t Units mg/Kg	the spike a 2007-06-1 2007-06-1 Dil. 1	nd spike duy 17 16 Spike Amount 12.5	Matr Resu <0.1	sult. A Pr tix 11t 40	nalyzed I repared H Rec.	By: ER By: ER Rec. Limit
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride	Spike (LCS	e result. R -1) LCS Result 12.2	PD is based on Date Analyzed: QC Preparation: t Units mg/Kg	the spike a 2007-06-1 2007-06-1 Dil. 1	nd spike duy 17 16 Spike Amount 12.5	Matr Resu <0.1	sult. A Pr tix 11t 40	nalyzed I repared H Rec.	By: ER By: ER Rec. Limit 90 - 110
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param	Spike (LCS	te result. R -1) LCS Result 12.2 te result. R LCSD Result	PD is based on Date Analyzed: QC Preparation: t Units mg/Kg	the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a	nd spike duy 17 16 Amount 12.5 nd spike duy	Matr Resu <0.1	sult. A Pr tix tilt 40 sult.	nalyzed I repared H Rec.	By: ER By: ER Rec. Limit 90 - 110 RPD Limit
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param	Spike (LCS	te result. R -1) LCS Result 12.2 te result. R LCSD Result	PD is based on Date Analyzed: QC Preparation: t Units mg/Kg PD is based on	the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike	nd spike duy 17 16 Amount 12.5 nd spike duy Matrix	Matr Resu <0.1 Dicate res	sult. A Pr ilt 40 sult. Rec.	nalyzed J repared H Rec. 98 RPD	By: ER By: ER Rec. Limit 90 - 110 RPD
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride	Spike (LCS	te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6	PD is based on Date Analyzed: C Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1	the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5	nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140	Matr Resu <0.1 Dicate res Rec. 101	A P tix 1lt 40 sult. Rec. Limit 90 - 110	nalyzed J repared H Rec. 98 RPD	By: ER By: ER Rec. Limit 90 - 110 RPI Limi
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas	Spike (LCS red on the spil	te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R	PD is based on Date Analyzed: C Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1	the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5	nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140	Matr Resu <0.1 Dicate res Rec. 101	A P tix 1lt 40 sult. Rec. Limit 90 - 110	nalyzed J repared H Rec. 98 RPD	By: ER By: ER Rec. Limit 90 - 110 RPI Limi
Chloride Percent recovery is bas Caboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Caboratory Control	Spike (LCS red on the spil	te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R -1)	PD is based on Date Analyzed: QC Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 PD is based on	the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 the spike a	nd spike duy 17 16 Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy	Matr Resu <0.1 Dicate res Rec. 101	A Prix 11t 40 Sult. Rec. Limit 90 - 110 Sult.	nalyzed I repared H Rec. 98 RPD 3	By: ER By: ER Limit 90 - 110 RPD Limit 20
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Laboratory Control QC Batch: 38310	Spike (LCS red on the spil	te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R -1)	PD is based on Date Analyzed: C Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1	the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5	nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy 18	Matr Resu <0.1 Dicate res Rec. 101	A P rix llt 40 sult. Rec. Limit 90 - 110 sult.	nalyzed J repared H Rec. 98 RPD	By: ER By: ER Rec. Limit 90 - 110 RPI Limi 20 By: ER
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Laboratory Control QC Batch: 38310	Spike (LCS red on the spil	te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R -1) I C	PD is based on Date Analyzed: QC Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 PD is based on Date Analyzed:	the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 the spike a 2007-06-1	nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy 18 18	Matr Resu <0.1 Dicate res Rec. 101 Dicate res	A Prix Ilt 40 Sult. Rec. Limit 90 - 110 Sult. A P	nalyzed I repared H Rec. 98 RPD 3 nalyzed I	By: ER By: ER Rec. Limit 90 - 110 RPD Limit 20 By: ER By: ER
Chloride Percent recovery is bas Laboratory Control QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Laboratory Control QC Batch: 38310	Spike (LCS red on the spil	te result. R -1) LCS Result 12.2 te result. R LCSD Result 12.6 te result. R -1)	PD is based on Date Analyzed: QC Preparation: t Units mg/Kg PD is based on Units Dil. mg/Kg 1 PD is based on PD is based on Date Analyzed: QC Preparation:	the spike a 2007-06-1 2007-06-1 Dil. 1 the spike a Spike Amount 12.5 the spike a 2007-06-1	nd spike duy 17 16 Spike Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy 18	Matr Resu <0.1 Dicate res Rec. 101	A P rix 1lt 40 sult. Rec. Limit 90 - 110 sult. A P rix	nalyzed I repared H Rec. 98 RPD 3 nalyzed I	By: ER By: ER R.ec. Limit 90 - 110 RPD Limit 20 By: ER

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	t	RPD	RPD Limit
Chloride	23.7	mg/Kg	1	12.5	< 0.140	95	90 - 1	10	59	20
Percent recovery is based on th	e spike result. I	RPD is b	ased on t	the spike an	id spike duj	plicate re	sult.			
Laboratory Control Spike ((LCS-1)									
QC Batch: 38312		Date An		2007-06-1	9				yzed B	
Prep Batch: 33171		QC Prep	aration:	2007-06-1	8			Prepa	ared By	y: ER
	LCS	n			Cutles	Mat				Dau
Param	Resu		Units	Dil.	Spike Amount	Mat Res		Rec		Rec. Limit
Chloride			ng/Kg	<u>1</u>	25.0	<0.2				<u>90 - 11</u>
								30		30-110
Percent recovery is based on th		RPD is b	ased on t	•		plicate re				
_	LCSD		_	Spike	Matrix		Rec.			RPL
Param	Result	Units	Dil.	Amount	Result	Rec.	Limi		RPD	Limi
Chloride	24.3	mg/Kg	1	25.0	< 0.140	97	90 - 1	10	0	20
Laboratory Control Spike (QC Batch: 38352	(LCS-1)	RPD is t Date An QC Prep	alyzed:	2007-06-2 2007-06-1	0	pillate re			yzed Bj ared Bj	-
Laboratory Control Spike (QC Batch: 38352	(LCS-1)	Date An QC Prep	alyzed:	2007-06-2	0	Mat			-	-
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202	(LCS-1)	Date An QC Prep	alyzed:	2007-06-2	0 9		rix		ared By	y: ER
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param	(LCS-1) LCS	Date An QC Prep S It	alyzed: paration:	2007-06-2 2007-06-1	0 9 Spike	Mat	rix ult	Prep	ared B	y: ER Rec. Limit
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride	(LCS-1) LCS Resu 12.3	Date An QC Prep 6 1t 3 n	alyzed: paration: Units ng/Kg	2007-06-2 2007-06-1 Dil. 1	0 9 Spike Amount 12.5	Mat Res <0.	ulı	Prepa Rec	ared B	y: ER Rec. Limit
Caboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on the	(LCS-1) LCS Resu 12.3 ne spike result. I LCSD	Date An QC Prep It RPD is b	alyzed: paration: Units ng/Kg pased on 1	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike	0 9 Amount 12.5 nd spike duy Matrix	Mat Res <0. plicate re	rix ult 140 sult. Rec.	Prepa Rec 98	ared B	y: ER Rec. Limit 90 - 110
Caboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on the param	(LCS-1) LCS Resu 12.3 he spike result. I LCSD Result	Date An QC Prep 6 1t RPD is b Units	alyzed: paration: Units ng/Kg pased on 1 Dil.	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount	0 9 Amount 12.5 nd spike duy Matrix Result	Mat Res <0. plicate re Rec.	rix ult 140 esult. Limi	Prepa Rec 98 t	RPD	y: ER Rec. Limit 90 - 110 RPD Limi
Caboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on the param	(LCS-1) LCS Resu 12.3 ne spike result. I LCSD	Date An QC Prep It RPD is b	alyzed: paration: Units ng/Kg pased on 1	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike	0 9 Amount 12.5 nd spike duy Matrix	Mat Res <0. plicate re	rix ult 140 sult. Rec.	Prepa Rec 98 t	ared B	y: ER Rec. Limit 90 - 110 RPD
•	(LCS-1) LCS Resu 12.3 ne spike result. I LCSD Result 23.3	Date An QC Prep It RPD is b Units mg/Kg	alyzed: paration: Units ng/Kg pased on 1 Dil. 1	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5	0 9 Amount 12.5 nd spike duy Matrix Result <0.140	Mat Res <0. plicate re Rec. 93	rix ult 140 esult. Eimi 90 - 1	Prepa Rec 98 t	RPD	y: ER Rec. Limit 90 - 110 RPD Limi
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th	(LCS-1) LCS Resu 12.3 ne spike result. I LCSD Result 23.3	Date An QC Prep b lt RPD is b Units mg/Kg RPD is b	alyzed: paration: Units ng/Kg pased on 1 Dil. 1	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5	0 9 Amount 12.5 nd spike duy Matrix Result <0.140	Mat Res <0. plicate re Rec. 93	rix ult 140 esult. Eimi 90 - 1	Prepa Rec 98 t	RPD	y: ER Rec. Limit 90 - 110 RPD Limi
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi	(LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I ked Sample: 123	Date An QC Prep It RPD is b Units mg/Kg RPD is b 5541	alyzed: paration: Units ng/Kg pased on t Dil. 1 pased on t	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar	0 9 Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy	Mat Res <0. plicate re Rec. 93	rix ult 140 esult. Eec. Limi 90 - 1 esult.	Prepa Rec 98 t	RPD 62	y: ER Rec. Limit 90 - 110 RPD Limi 20
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi	(LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123	Date An QC Prep b lt RPD is b Units mg/Kg RPD is b	alyzed: paration: Units ng/Kg ased on t Dil. 1 pased on t alyzed:	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5	0 9 Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy	Mat Res <0. plicate re Rec. 93	rix ult 140 esult. Kec. Limi 90 - 1 esult.	Prepa Rec 98 t 10	RPD	y: ER Rec. Limit 90 - 110 RPD Limi 20
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi QC Batch: 37541	(LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123	Date An QC Prep It RPD is b Units mg/Kg RPD is b 5541 Date Ana	alyzed: paration: Units ng/Kg ased on t Dil. 1 pased on t alyzed:	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar 2007-05-23	0 9 Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy	Mat Res <0. plicate re Rec. 93	rix ult 140 sult. Kec. Limi 90 - 1 sult.	Prepa Rec 98 t 10	RPD 62	y: ER Rec. Limit 90 - 110 RPD Limi 20
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on the Param Chloride Percent recovery is based on the Param Chloride Percent recovery is based on the Vlatrix Spike (MS-1) Spi QC Batch: 37541 Prep Batch: 32545	(LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 MS Result	Date An QC Prep It RPD is b Units mg/Kg RPD is b 5541 Date An QC Prep	alyzed: paration: Units ng/Kg ased on t Dil. 1 pased on t alyzed: aration: nits	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar 2007-05-23 2007-05-23	0 9 Spike Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy	Mat Res <0. plicate re <u>Rec.</u> 93 plicate re	rix ult 140 sult. Fec. Limi 90 - 1 sult.	Prepa Rec 98 t 10	RPD 62 vzed By ared By	y: ER Rec. Limit 90 - 110 RPD Limi 20
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param 2 Chloride 2 Percent recovery is based on the 2 Param 2 Chloride 2 Percent recovery is based on the 2 Vlatrix Spike (MS-1) Spi QC Batch: 37541 Prep Batch: 32545 Param 3 Benzene 3	(LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 MS Result 0.768	Date An QC Prep blt RPD is b Units mg/Kg RPD is b 5541 Date An QC Prep	alyzed: paration: Units ng/Kg pased on 1 Dil. 1 pased on 1 pased on 1 alyzed: aration: nits c/Kg	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar 2007-05-22 2007-05-23 2007-05-23	0 9 Spike Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy 5 5 5 Spike Amount 1.00	Mat Res <0. plicate re 93 plicate re Matri Resul <0.003	xrix 140 esult. Fec. Limi 90 - 1 esult.	Prepa Rec 98 t 10 Analy Prepa Rec. 77	RPD 62 vzed By ured By 39	y: ER Rec. Limit 90 - 110 RPD Limi 20 : MT : MT : MT Rec. Limit 0.6 - 14:
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi QC Batch: 37541 Prep Batch: 32545 Param Benzene Foluene	(LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 MS Result 0.768 0.798	Date An QC Prep blt RPD is b Units mg/Kg RPD is b 5541 Date An QC Prep	alyzed: paration: Units ng/Kg pased on 1 Dil. 1 pased on 1 pased on 1 alyzed: aration: nits g/Kg	2007-06-2 2007-06-1 Dil. 1 the spike an Spike Amount 12.5 the spike an 2007-05-2: 2007-05-2: 2007-05-2: 2007-05-2: 1	0 9 Spike Amount 12.5 nd spike duy Matrix Result <0.140 nd spike duy 5 5 Spike Amount 1.00 1.00	Mat Res <0 plicate re Rec. 93 plicate re Matri Resul <0.003 <0.003	xix 140 esult. Fec. Limi 90 - 1 esult. x t 33 72	Prepa Rec 98 t 10 Analy Prepa Rec. 77 80	RPD 62 vzed By vzed By ared By 32 43	y: ER Rec. Limit 90 - 110 RPD Limi 20 : MT : MT : MT Rec. Limit 0.6 - 14: 5.4 - 138
Laboratory Control Spike (QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is based on th Param Chloride Percent recovery is based on th Matrix Spike (MS-1) Spi QC Batch: 37541 Prep Batch: 32545 Param Benzene	(LCS-1) LCS Resu 12.3 he spike result. I LCSD Result 23.3 he spike result. I iked Sample: 123 MS Result 0.768	Date An QC Prep blt RPD is b Units mg/Kg RPD is b 5541 Date An QC Prep t Umag mg	alyzed: paration: Units ng/Kg pased on 1 Dil. 1 pased on 1 pased on 1 alyzed: aration: nits c/Kg	2007-06-2 2007-06-1 Dil. 1 the spike ar Spike Amount 12.5 the spike ar 2007-05-22 2007-05-23 2007-05-23	0 9 Spike Amount 12.5 ad spike duy Matrix Result <0.140 ad spike duy 5 5 5 Spike Amount 1.00	Mat Res <0. plicate re 93 plicate re Matri Resul <0.003	xix 140 esult. Fec. Limi 90 - 1 esult. x t 33 72 06	Prepa Rec 98 t 10 Analy Prepa Rec. 77	RPD 62 vzed By vzed By ared By 32 43 43	y: ER Rec. Limit 90 - 110 RPD Limi 20 MT : MT : MT Rec.

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	MSD			Spike	Mat	rix		Re	:C.		RPD
Param	Result	Units	Dil.	Amount	Res		Rec.	Lin		RPD	Limit
Benzene	0.772	mg/K		1.00	<0.00		77	39.6		0	20
Toluene	0.801	mg/K		1.00	< 0.00		80	45.4		õ	20
Ethylbenzene	0.845	mg/K		1.00	< 0.00		84	48 -		1	20
Xylene	2.54	mg/K		3.00	<0.00		85	45.3		Ô	20
Percent recovery is based on the				·					112		
				ni une spine	and bly						
	M		MSD			Sp		MS	MSD		Rec.
Surrogate	Res		Result	Units	_Dil.	_Amo		Rec.	Rec.		Limit
Triffuorotoluene (TFT)	0.9		0.922	mg/Kg	1]		94	92		5 - 138
4-Bromofluorobenzene (4-BFB)	0.9	925	0.902	mg/Kg	3]	·	92	90	52	2.2 - 139
Matrix Spike (MS-1) Spike QC Batch: 37543 Prep Batch: 32545	ed Sample:	Date	Analyzed reparatio							zed By ared By	
	Ν	1S			Spi	ke	Ma	trix			Rec.
Param	Re	sult	Units	Dil.	Amo	ount.	Re	sult	Rec.		Limit
GRO	• 7.	98	mg/Kg	1	10	.0	<0	.459	80	4().7 - 157
Param	MSD Result	Unit	s Dil.	Spike	Mat t Res	trix sult	Rec.	Re Lin	nit	RPD	Limi
Param GRO	MSD Result 7.63	Unit mg/H	s Dil. Kg 1	Spike Amount 10.0	Mat t Res <0.	trix sult 459	Rec.	Re Lin 40.7	nit	RPD 4	RPD Limit 19.6
Percent recovery is based on the Param GRO Percent recovery is based on the	MSD Result 7.63 spike result	Unit mg/H t. RPD	$\frac{1}{\log 1}$ is based of	Spike Amount 10.0	Mat t Res <0.	trix sult 459 ike du	Rec. 76 plicate	Re Lin 40.7 - result.	ait - 157	4	Limit 19.6
Param GRO Percent recovery is based on the	MSD Result 7.63 spike result	Unit mg/H t. RPD IS	$\frac{1}{\sqrt{g}}$ Dil. $\frac{1}{\sqrt{g}}$ Dil. Dis based of MSD	Spike Amount 10.0 on the spike	Mat t Res <0.	trix sult 459 ike du Sp	Rec. 76 plicate ike	Re Lin 40.7 - result. MS	nit - 157 MSD	4	Limit 19.6 Rec.
Param GRO Percent recovery is based on the Surrogate	MSD Result 7.63 spike result M Res	Unit mg/I t. RPD 1S sult	s Dil. <u>(g 1</u> is based o MSD Result	Spike Amount 10.0 on the spike Units	Mat t Res <0. and spi Dil.	trix sult 459 ike du Sp .Ama	Rec. 76 plicate ike punt	Re Lin 40.7 - result. MS Rec.	nit - 157 MSD Rec.	4	Limit 19.6 Rec. Limit
Param GRO	MSD Result 7.63 spike result M Res 0.8	Unit mg/H t. RPD IS	$\frac{1}{\sqrt{g}}$ Dil. $\frac{1}{\sqrt{g}}$ Dil. Dis based of MSD	Spike Amount 10.0 on the spike	Mat t Res <0.	trix sult 459 ike du Sp Amo	Rec. 76 plicate ike punt	Re Lin 40.7 - result. MS	nit - 157 MSD	4	Limit 19.6 Rec. Limit 1.9 - 153
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546	MSD Result 7.63 spike result M Res 0.8	Unit mg/I t. RPD IS sult 345 341 125560 Date	s Dil. (g 1 is based o MSD Result 0.730	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg	Mat t Res <0. and spi Dil. 1 1	trix sult 459 ike du Sp Amo	Rec. 76 plicate ike punt	Re Lin 40.7 - result. MS Rec. 84	nit - 157 MSE Rec. - 73 - 83 - Analy	4	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 7: MT
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547	MSD Result 7.63 spike result M Res 0.8 0.8 0.9 0.8 0.9 0.8 0.8 0.9 0.8 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	Unit mg/I t. RPD 11S 541 125560 Date QC P	s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparatio	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-03	Mat t Res <0. and spi Dil. 1 1 5-25 5-25 5-25 5-25	trix sult 459 ike du Sp Amo	Rec. 76 plicate ike punt	Re Lim 40.7 - result. MS Rec. 84 94	nit 157 MSD Rec. 73 83 Analy Prepa	4 34 58 vzed By	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 2: MT MT MT Rec.
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param	MSD Result 7.63 spike result M Res ed Sample: M Res	Unit mg/I t. RPD IS sult 345 341 125560 Date QC P (S sult	s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation Units	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0; on: 2007-0; Dil.	Mat t Res <0. and spi Dil. 1 1 5-25 5-25 5-25 Spik Amou	e e trix sult 459 Amo Amo	Rec. 76 plicate ike punt t	Re Lim 40.7 - result. MS Rec. 84 94	nit 157 MSD Rec. 73 83 Analy Prepa Rec.	4 34 58 vzed By	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 7: MT MT MT Rec. Limit
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene	MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7	Unit mg/I mg/I t. RPD IS sult 445 941 125560 Date QC P (S sult '26	s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation Units mg/Kg	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0; on: 2007-0; Dil. 1	Mat t Res <0. and spi Dil. 1 1 5-25 5-25 5-25 Spik Amou 1.00	e e unt	Rec. 76 plicate ike punt ke Ma Res <0.0	Re Lim 40.7 - result. MS Rec. 84 94 94	nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73	4 34 58 vzed By vzed By as	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 MT Rec. Limit 9.6 - 141
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene	MSD Result 7.63 spike result 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7	Unit mg/I mg/I t. RPD IS sult 445 445 441 125560 Date QC P (S sult '26 '60	s Dil. <u>Kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation Units mg/Kg mg/Kg	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0; on: 2007-0; Dil. 1 1	Mat t Res <0. and spi Dil. 1 1 1 5-25 5-25 5-25 5-25 5-25 5-25 5-2	e e unt	Rec. 76 plicate ike punt ke vunt ke co.0 <0.0	Re Lim 40.7 - result. MS Rec. 84 94 vtrix sult 0333 0372	nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 76	4 34 58 vzed By vzed By as 45	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 7: MT :: MT Rec. Limit 9.6 - 141 5.4 - 138
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene	MSD Result 7.63 spike result 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7	Unit mg/I mg/I t. RPD IS sult 445 441 125560 Date QC P (S sult '26 '60 '88	s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation <u>Units</u> <u>mg/kg</u> mg/kg mg/kg	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0; on: 2007-0; Dil. 1 1 1	Mat t Res <0. and spi Dil. 1 1 1 5-25 5-25 5-25 5-25 5-25 5-25 5-2	e e h t t t t t t t t t t t t t t t t t	Rec. 76 plicate ike punt ke vount ke count coun	Re Lim 40.7 - result. MS Rec. 84 94 vtrix sult 0333 0372 0206	nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 76 79	4 34 58 vzed By vzed By ared By 39 45 45	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 MT Rec. Limit 2.6 - 141 5.4 - 138 8- 141
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene	MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Unit mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37	s Dil. Kg 1 is based of MSD Result 0.730 0.832 Analyzed reparation Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1	Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 3.00	e e int	Rec. 76 plicate ike bunt Ma Res <0.0 <0.0 <0.0 <0.0 <0.0	Re Lim 40.7 - result. MS Rec. 84 94 94 trix sult 0333 0372 0206 0259	nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 76	4 34 58 vzed By vzed By ared By 39 45 45	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 MT Rec. Limit 2.6 - 141 5.4 - 138 18 - 141
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene	MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Unit mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37	s Dil. Kg 1 is based of MSD Result 0.730 0.832 Analyzed reparation Units mg/Kg mg/Kg mg/Kg mg/Kg	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1	Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 3.00	e e int	Rec. 76 plicate ike bunt Ma Res <0.0 <0.0 <0.0 <0.0 <0.0	Re Lim 40.7 - result. MS Rec. 84 94 94 trix sult 0333 0372 0206 0259	nit 157 MSD Rec. 73 83 Analy Prepa Rec. 73 76 79	4 34 58 vzed By vzed By ared By 39 45 45	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 MT Rec. Limit 2.6 - 141 5.4 - 138 18 - 141
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the	MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Unit mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37 t. RPD	s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation <u>Units</u> mg/kg mg/kg mg/kg mg/kg is based of	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1 1 1 5 n the spike	Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 2. and spi wat	e unt) ike du Sp Amo Amo () ())))))))))))))))	Rec. 76 plicate ike punt Ma Rec <0.0 <0.0 <0.0 <0.0 <0.0 plicate	Re Lim 40.7 - result. MS Rec. 84 94 trix sult 0333 0372 0206 0259 result. R	nit - 157 MSD Rec. - 73 - 83 - 83 - 41 - 157 - 157 - 157 - 73 - 73 - 76 - 79 - 79 - 79 - 79 - 90 	4 34 58 vzed By ared By 45 45 45	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 7: MT *: MT Rec. Limit 1.6 - 141 5.4 - 138 18 - 141 5.3 - 142 RPD
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene Xylene Percent recovery is based on the Param	MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Unit mg/I mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37 t. RPD Units	s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg is based of s Dil.	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1 1 1 1 1 1	Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 2 and spi e and spi	e unt) ike du Sp Amo Amo ike du	Rec. 76 plicate ike bunt Ma Res <0.0 <0.0 <0.0 <0.0 <0.0	Re Lim 40.7 - result. MS Rec. 84 94 trix sult 0333 0372 0206 0259 result. R	nit - 157 MSD Rec. - 73 - 83 - 4 - 83 - 4 - 157 - 157 - 73 - 73 - 76 - 79 - 70 -	4 34 58 vzed By vzed By ared By 39 45 45	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 7: MT *: MT Rec. Limit 1.6 - 141 5.4 - 138 18 - 141 5.3 - 142 RPD
Param GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37546 Prep Batch: 32547 Param Benzene Toluene Ethylbenzene	MSD Result 7.63 spike result M Res 0.8 0.5 ed Sample: M Res 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	Unit mg/I t. RPD IS sult 125560 Date QC P IS sult 26 60 788 37 t. RPD	s Dil. <u>kg 1</u> is based of MSD Result 0.730 0.832 Analyzed reparation <u>Units</u> mg/Kg mg/Kg mg/Kg mg/Kg is based of s Dil.	Spike Amount 10.0 on the spike Units mg/Kg mg/Kg :: 2007-0: on: 2007-0: Dil. 1 1 1 1 1 1 5 n the spike	Mat t Res <0 and spi Dil. 1 1 1 5-25 5-25 Spik Amou 1.00 1.00 1.00 2. and spi wat	e unt) ike du Sp Amo Amo ike du	Rec. 76 plicate ike punt Ma Rec <0.0 <0.0 <0.0 <0.0 <0.0 plicate	Re Lim 40.7 - result. MS Rec. 84 94 trix sult 0333 0372 0206 0259 result. Ry Lin	nit - 157 MSD Rec. - 73 - 83 - 83 - 41 - 157 - 157 - 157 - 73 - 73 - 76 - 79 - 79 - 79 - 79 - 90 	4 34 58 vzed By ared By 45 45 45	Limit 19.6 Rec. Limit 1.9 - 155 3.5 - 155 3.5 - 155 y: MT : MT Rec. Limit 9.6 - 141 5.4 - 138

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matrix spikes continued											
,	MSD			Spike	Mat	rix:		R	ec.		RPD
Param	Result	Unit	s Dil.	Amount	Res	ult	Rec.	Liı	nit	RPD	Limit
Ethylbenzene	0.814	mg/K	g 1	1.00	<0.00	0206	81	48 -	141	3	20
Xylene	2.44	mg/K	.g 1	3.00	<0.00	0259	81	45.3	- 142	3	· 20
Percent recovery is based on the s	spike result	. RPD	is based o	on the spike	and spi	ike duj	olicate	result.			
	M	IS	MSD			Spi	ke	MS	MSI)	Rec.
Surrogate	Re	sult	Result	Units	Dil.	Amo	unt	Rec.	Rec		Limit
Trifluorotoluene (TFT)	0.8	313	0.936	mg/Kg	1	1		81	94	51	.5 - 138
4-Bromofiuorobenzene (4-BFB)	0.7	790	0.911	mg/Kg	1	1		79	91	52	.2 - 139
Matrix Spike (MS-1) Spike QC Batch: 37547 Prep Batch: 32547	d Sample:	Date	Analyzec reparatic							vzed By ared By	
	N	1S			Spi	ike	Ма	trix			Rec.
Param	Re	sult.	Units	Dil.	Amo	ount	Re	sult	Rec.		Limit
GR.O	7.	59	mg/Kg	1	10	.0	<0.	459	76	40	1.7 - 157
Percent recovery is based on the s	spike result	. RPD	is based	on the spike	e and spi	ike du	plicate	result.			
	MSD			Spike	Mat	trix		Re	ec.		RPD
Param	Result	Uni	ts Dil	Amoun	t Res	sult	Rec.	Lir	nit	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 s	spike result	. RPD	is based	on the spike	e and spi	ike du	plicate	result.			
		IS	MSD			Sp	ke	MS	MSI		Rec.
Surrogate		sult	Result	Units	Dil.	Amo	ount	Rec.	Rec		Limit
Trifluorotoluene (TFT)		306	0.898	mg/Kg	1]		81	90		.9 - 155
4-Bromofluorobenzene (4-BFB)	0.8	384	0.991	mg/Kg	1]		88	99	58	5.5 - 153
Matrix Spike (MS-1) Spike	d Sample:	125578									
QC Batch: 37548	-	Date	Analyzed	l: 2007-0	5-25				Anal	vzed By	MT
Prep Batch: 32548				n: 2007-0						ared By	
•		~	· •						fre		
	М	S			Spik	e	Mat	rix			Rec.
Param	Res		Units	Dil.	Amou		Res		Rec.		Limit
Benzene	0.9		mg/Kg	1	1.00		<0.0		91		0.6 - 141
Toluene	0.9	28	mg/Kg	1	1.00)	<0.0		93	43	5.4 - 138
	0.9		mg/Kg	1	1.00)	<0.0		92		8 - 141
	2	77	mg/Kg	1	3.00)	<0.0	0259	92	43	5.3 - 142
	L.		• • •	on the spike	e and sp	ike du	plicate	result.			
Ethylbenzene Xylene Percent recovery is based on the s		t. RPD	is based	our due optie							
Xylene Percent recovery is based on the s	spike result MSD			Spike	Mat				ec.		RPD
Xylene Percent recovery is based on the s Param	spike resul MSD Result	Unit	s Dil.	Spike Amount	Res	ult	Rec.	Li	mit	RPD	Limit
Xylene Percent recovery is based on the s Param Benzene	spike result MSD Result 0.878	Unit mg/H	s Dil. Xg l	Spike Amount 1.00	Res <0.0	ult. 0333	88	Li 39.6	mit - 141	3	Limit 20
Xylene	spike resul MSD Result	Unit	s Dil. Ig 1 Ig 1	Spike Amount	Res	ult 0333 0372		Li 39.6 45.4	mit		Limit

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matrix spikes continued										
	MSD			Spike	Matrix		R	ec.		RPD
Param	Result	Units	Dil.	Amount	Result			mit	RPD	Limit
Xylene	2.68	mg/Kg	1	3.00	< 0.0025		45.3	- 142	3	20
Percent recovery is based on the	spike result.		based or	the spike	and spike	duplicate	result.			
•* •	-					•		2.107	``````````````````````````````````````	'n
	MS		SD	T	ויס	Spike	MS	MSI		Rec.
Surrogate Trifluorotoluene (TFT)	Rest		<u>sult</u> 02	Units		Amount1	Rec.	Rec.		Limit
4-Bromofluorobenzene (4-BFB)	$1.1 \\ 1.0$			mg/Kg mg/Kg	1 1	1	$\frac{111}{104}$	102 96		2.2 - 139
P Di Ginoni del Obenzene (4-Di D)	1.0			mg/ng	1	1				
Matrix Spike (MS-1) Spike	d Sample: 1	25578								
, .			*							
QC Batch: 37549		Date Ar								·: MT
Prep Batch: 32548		QC Prej	paration	I: 2007-05	5-25			Prepa	ared By	: MT
	M	-			Spike		atrix			Rec.
Param	Res		Units	Dil.	Amoun		sult	Rec.		Limit
GRO	8.8	0 n	ng/Kg	11	10.0	<0	.459	88	4().7 - 157
Percent recovery is based on the	spike result.	RPD is	based or	n the spike	and spike	duplicate	e result.			
	MSD			Spike	Matrix	¢	R	ec.		RPD
Param	Result	Units	Dil.	Amount				nit	RPD	Limit
GR.0	8.99	mg/Kg	1	10.0	<0.45			- 157	2	19.6
Percent recovery is based on the	spike result.		based or	n the spike			e result.			
	MS	с м	SD	-		Spike	MS	MSI	٦	Rec.
Surrogate	Rest		sult	Units	Dil. A	Amount	Rec.	Rec		Limit
Trifiuorotoluene (TFT)	1.0		.06	mg/Kg	1	1	102	106		1.9 - 155
4-Bromofluorobenzene (4-BFB)	1.0		.12	mg/Kg	1	1	113	100		3.5 - 153
Matrix Spike (MS-1) Spike QC Batch: 37553 Prep Batch: 32551	ed Sample: 1	25555 Date Ar QC Pre							yzed B ared B	y: TG y: TG
	M	3			Spike	M	atrix			Rec.
Param	Res		Units	Dil.	Amour		esult	Rec.		Limit
DRO	20		ng/Kg	1	250		10.7	80	4	7.5 - 127
Percent recovery is based on the	spike result.			n the spike	and spike	duplicate	e result.			
	MSD			Spike	Matri:	x	R	ec.		RPD
Param	Result	Units	Dil.	Amount				mit	RPD	Limit
	205	mg/Kg	1	250	<10.7			- 127	2	20
		DDD ·	hased o	n the spike	and spike	duplicate	e result.			
DRO	spike result.	RPD 15	babed 0.	-						
Percent recovery is based on the MS	spike result. MSI			-	Spike	e N	4S	MSD		Rec.
DRO Percent recovery is based on the	MSI)	Units	Dil.	Spike Amoui		AS .ec.	MSD Rec.		Rec. Limit

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Report Date: June 20, 200 State M SWD)7			Work Orde State N		3		Page	Vumber: Buc	keye,NN
Matrix Spike (MS-1)	Spiked	Sample: 125	5571							
QC Batch: 37554 Prep Batch: 32551				nalyzed: eparation:	2007-05-1 2007-05-1				alyzed E pared B	
		MS				Spike	Matri	ix.		Rec.
Param		Resul	t.	Units	Dil.	Amount	Resu	lt Re	.	Limit
DRO		224		mg/Kg	1	250	<10.	7 90	4	7.5 - 12
Percent recovery is based o	on the sp	ike result. I	RPD is	based on	the spike a	ınd spike dı	iplicate re	sult.		
		MSD			Cailes	Matrix		Rec.		RPI
Param		Result	Units	Dil.	Spike Amount	Result	Rec.	Limit	RPD	Limi
DRO			mg/K		250	<10.7		47.5 - 127	2	20
Percent recovery is based of	m the sn						·			
. croche recevery is pased (10 10 18	Jased OI	me phike s	ara phite ar				
0	MS	MSD		 .		Spike	MS	MSI		Rec.
Surrogate	Result	Result		Units	Dil.	Amount	Rec.	Rec		Limit
n-Triacontane	227	228]	ng/Kg	1	150	151	152	(:	32.5 - 16
Prep Batch: 32551			QC Pr	eparation:	2007-05-	25		11	epared E	\mathbf{y} : $\mathbf{T}\mathbf{Q}$
Prep Batch: 32551			QC Pr	eparation:	2007-05-				epared E	-
		MS		-		Spike	Matr	ix	-	Rec.
Param		MS Resul	t.	Units	Dil.	Spike Amount	Resu	ix lt Re	<i>с</i> .	Rec. Limit
Param DRO	on the sp	MS Resul 206	t.	Units mg/Kg	Dil.	Spike Amount 250	Resu <10.	ix lt Re 7 82	<i>с</i> .	Rec. Limit
Param	on the sp	MS Resul 206 ike result. H	t.	Units mg/Kg	Dil. 1 the spike a	Spike Amount 250 and spike du	Resu <10.	ix lt Re 7 82 sult.	<i>с</i> .	Rec. Limit 17.5 - 12
Param DRO Percent recovery is based o	on the sp	MS Resul 206 ike result. H MSD	t RPD is	Units mg/Kg based on	Dil. 1 the spike a Spike	Spike Amount 250 and spike du Matrix	Resu <10. uplicate re	ix lt Re 7 82 esult. Rec.	с ?4	Rec. Limit 47.5 - 12 RPI
Param DRO Percent recovery is based o Param	on the sp	MS Resul 206 ike result. I MSD Result	t RPD is Units	Units mg/Kg based on Dil.	Dil. 1 the spike a Spike Amount	Spike <u>Amount</u> 250 und spike du Matrix Result	Resu <10. uplicate re Rec.	ix lt Re 7 82 soult. Rec. Limit	c. 4 RPD	Rec. Limit 17.5 - 12 RPI Limi
Param DRO Percent recovery is based o Param DRO		MS Resul 206 ike result. I MSD Result 207	t RPD is Units mg/K	Units mg/Kg based on Dil. g 1	Dil. 1 the spike a Spike Amount 250	Spike Amount 250 and spike du Matrix Result <10.7	Resu <10. iplicate re Rec. 83	ix <u>lt Re</u> 7 82 ssult. <u>Rec.</u> Limit 47.5 - 127	с ?4	Rec. Limit 47.5 - 12 RPI
Param DRO Percent recovery is based o Param		MS Resul 206 ike result. I MSD Result 207	t RPD is Units mg/K	Units mg/Kg based on Dil. g 1	Dil. 1 the spike a Spike Amount 250	Spike Amount 250 and spike du Matrix Result <10.7	Resu <10. iplicate re Rec. 83	ix <u>lt Re</u> 7 82 ssult. <u>Rec.</u> Limit 47.5 - 127	c. 4 RPD	Rec. Limit 17.5 - 12 RPI Limi
Param DRO Percent recovery is based o Param DRO		MS Resul 206 ike result. I MSD Result 207	t RPD is Units mg/K	Units mg/Kg based on Dil. g 1	Dil. 1 the spike a Spike Amount 250	Spike Amount 250 and spike du Matrix Result <10.7	Resu <10. iplicate re Rec. 83	ix <u>lt Re</u> 7 82 ssult. <u>Rec.</u> Limit 47.5 - 127	2. 4 RPD 0	Rec. Limit 17.5 - 12 RPI Limi
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate	on the sp MS Result	MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result	t RPD is Units mg/Kj RPD is	Units mg/Kg based on Dil. g 1 based on Units	Dil. 1 the spike a Spike Amount 250	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount	Resu <10. iplicate re Rec. 83 iplicate re MS Rec.	ix <u>It</u> Re <u>7 85</u> esult. <u>Rec.</u> Limit <u>47.5 - 127</u> esult. MSI Rec	c. 2 4 RPD 0	Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit
Param DRO Percent recovery is based of Param DRO Percent recovery is based of	on the sp MS	MS Resul 206 ike result. I MSD Result 207 ike result. I MSD	t RPD is Units mg/Kj RPD is	Units mg/Kg based on Dil. g 1 based on	Dil. 1 the spike a Spike Amount 250 the spike a	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike	Resu 210. 1plicate re Rec. 83 1plicate re MS	ix <u>It</u> Re 7 82 ssult. <u>Rec.</u> Limit 47.5 - 127 ssult. MSI	c. 2 4 RPD 0	Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate	on the sp MS Result 229	MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result	t RPD is mg/K RPD is	Units mg/Kg based on Dil. g 1 based on Units	Dil. 1 the spike a Spike Amount 25() the spike a Dil.	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount	Resu <10. iplicate re Rec. 83 iplicate re MS Rec.	ix <u>It</u> Re <u>7 85</u> esult. <u>Rec.</u> Limit <u>47.5 - 127</u> esult. MSI Rec	c. 2 4 RPD 0	Rec. Limit 47.5 - 12 RPI Limi 20 Rec.
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate a-Triacontane Matrix Spike (MS-1) QC Batch: 37618	on the sp MS Result 229	MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 123	t RPD is mg/K RPD is 5620 Date A	Units mg/Kg based on Dil. g 1 based on Units mg/Kg	Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05-	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150	Resu <10. iplicate re Rec. 83 iplicate re MS Rec.	ix <u>It</u> Re <u>7</u> 82 sult. <u>Rec.</u> <u>Limit</u> <u>47.5 - 127</u> esult. <u>MSI</u> <u>Rec</u> <u>151</u>	c. RPD 0	Rec. Limit 17.5 - 12 RPI Lim 20 Rec. Limit 32.5 - 16
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1)	on the sp MS Result 229	MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 123	t RPD is mg/K RPD is 5620 Date A	Units mg/Kg based on Dil. g 1 based on Units mg/Kg	Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150	Resu <10. iplicate re Rec. 83 iplicate re MS Rec.	ix <u>It</u> Re <u>7</u> 82 sult. <u>Rec.</u> <u>Limit</u> <u>47.5 - 127</u> esult. <u>MSI</u> <u>Rec</u> <u>151</u>	c. 2 4 RPD 0	Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate a-Triacontane Matrix Spike (MS-1) QC Batch: 37618	on the sp MS Result 229	MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 123	t RPD is mg/K RPD is 5620 Date A	Units mg/Kg based on Dil. g 1 based on Units mg/Kg	Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05-	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150	Resu <10. iplicate re Rec. 83 iplicate re MS Rec.	ix <u>It</u> Re 7 8: rsult. <u>Rec.</u> <u>Limit</u> 47.5 - 127 rsult. <u>MSI</u> <u>Rec</u> 151 Ar Pr	c. RPD 0	Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 37618 Prep Batch: 32598 Param	on the sp MS Result 229	MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 123 MS Result	t RPD is mg/K RPD is 5620 Date A QC Pr	Units mg/Kg based on Dil. g 1 based on Units mg/Kg analyzed: eparation: Units	Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05-	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29	Resu oplicate res Rec. 83 oplicate res MS Rec. 153	ix <u>It</u> Re 7 8: 2501t. Rec. Limit 47.5 - 127 2501t. MSI <u>Rec</u> 151 Ar Pr x t. Rec. 151	c. RPD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16 By: KE By: KE By: KE
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 37618 Prep Batch: 32598 Param Benzene	on the sp MS Result 229	MS Resul 206 ike result. F MSD Result 207 ike result. F MSD Result 227 Sample: 125 Sample: 125 MS Result 0.756	t RPD is mg/Kj RPD is 5620 Date A QC Pr t	Units mg/Kg based on Dil. g 1 based on Units mg/Kg analyzed: eparation: Units ng/Kg	Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05- 2007-05- 1	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 29 29	Resu oplicate res Rec. 83 oplicate res MS Rec. 153 Matri Resul <0.003	ix lt Re 7 82 ssult. Rec. Limit 47.5 - 127 esult. MSI Rec 151 Ar Pr x t Re 33 7	c. RPD 0 0 alyzed H epared E	Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16 By: KE By: KE By: KE By: KE By: KE
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 37618 Prep Batch: 32598 Param Benzene Foluene	on the sp MS Result 229	MS Resul 206 ike result. I MSD Result 207 ike result. I MSD Result 227 Sample: 12; MS Result 0.756 0.777	t RPD is mg/Kj RPD is 5620 Date A QC Pr t	Units mg/Kg based on Dil. g 1 based on Units mg/Kg snalyzed: eparation: Units ng/Kg ng/Kg	Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- Dil. 1 1	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 29 29 29 29 29	Resu 210. 1plicate re 83 1plicate re MS Rec. 153 Matri Resul <0.003 <0.003	ix <u>lt</u> Re <u>7 85</u> esult. <u>Rec.</u> <u>Limit</u> <u>47.5 - 127</u> esult. <u>MSI</u> <u>Rec</u> <u>151</u> <u>151</u> <u>Ar</u> Pr <u>x</u> <u>t</u> Re <u>33 7</u> 72 7	c. RPD 0 0 2 alyzed H epared E 5 3 5 4	Rec. Limit 47.5 - 12 RPI Limi 20 Rec. Limit 52.5 - 16 By: KE By: KE By: KE Rec. Limit 39.6 - 14 45.4 - 13
Param DRO Percent recovery is based of Param DRO Percent recovery is based of Surrogate n-Triacontane Matrix Spike (MS-1) QC Batch: 37618 Prep Batch: 32598 Param Benzene	on the sp MS Result 229	MS Resul 206 ike result. F MSD Result 207 ike result. F MSD Result 227 Sample: 125 Sample: 125 MS Result 0.756	t RPD is mg/Kj RPD is 5620 Date A QC Pr t	Units mg/Kg based on Dil. g 1 based on Units mg/Kg analyzed: eparation: Units ng/Kg	Dil. 1 the spike a Spike Amount 250 the spike a Dil. 1 2007-05- 2007-05- 2007-05- 2007-05- 1	Spike Amount 250 and spike du Matrix Result <10.7 and spike du Spike Amount 150 29 29 29 29 29 29	Resu oplicate res Rec. 83 oplicate res MS Rec. 153 Matri Resul <0.003	ix <u>lt</u> Re <u>7 8:</u> ssult. <u>Rec.</u> Limit <u>47.5 - 127</u> ssult. <u>MSJ</u> <u>Rec</u> <u>151</u> <u>Ar</u> Pr <u>x</u> <u>kt</u> Re <u>333 7</u> <u>772 7</u> 206 8	c. RPD 0 0 alyzed H epared E c. 5 3 8 4 0	Rec. Limit 17.5 - 12 RPI Limi 20 Rec. Limit 32.5 - 16 By: KE By: KE Rec. Limit 39.6 - 14

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	MSD			Spike	Mat:	rix		R	ec.		RPD
Param	Result	Units	Dil.	Amount	Rest		Rec.	Li	mit	RPD	Limiu
Benzene	0.774	mg/Kg	1	1.00	<0.00		77	39.6	- 141	2	20
Foluene	0.798	mg/Kg		1.00	<0.00		80	45.4	- 138	3	20
Ethylbenzene	0.817	mg/Kg		1.00	<0.00	1206	82	48 -	- 141	3	20
Xylene	2.47	mg/Kg		3.00	<0.00		82	45.3	- 142	3	20
Percent recovery is based on the	spike result	. RPD is	based c	n the spike	and spi	ke dur	licate	result.			
	М	is N	ASD			Spil	xe	MS	MSD		Rec.
Surrogate	Res		esult	Units	Dil.	Amo	unt	Rec.	Rec.		Limit
Trifluorotoluene (TFT)	0.8	42 0	.875	mg/Kg	1	1		84	88		.5 - 138
4-Bromofluorobenzene (4-BFB)	0.7	99 0	.846	mg/Kg	1	1		8(1	85	52.	.2 - 139
QC Batch: 37619 Prep Batch: 32598			.nalyzed eparatio						-	vzed By ured By	
	N	IS			Spi			trix			Rec.
Param	Re	sult	Units	Dil.	Amo		Re	sult	Rec.		Limit
GRO	1().5	mg/Kg	1	10.	.0	<0	.459	105	40	.7 - 15
Percent recovery is based on the Param	MSD Result	Units	Dil.	Spike Amount	Mat Res	rix ult	Rec.	R/ Lii	ec. mit	RPD	RPD Limi
		mg/Kg	z 1	10.0	<0.4		108		- 157	3	19.6
	10.8			(1 *1	1.						
	spike result	. RPD is	based o	on the spike	and spi			MS			_
Percent recovery is based on the	spike result M	RPD is	based o			Spi	ĸe		MSD		Rec.
Percent recovery is based on the Surrogate	spike result M Res	. RPD is IS M sult R	based o MSD .esult	Units	Dil.	Spi Amo	ĸe	Rec.	Rec.]	Limit
Percent recovery is based on the Surrogate Irifluorotoluene (TFT)	spike result M Res 0.9	. RPD is IS M sult R 940 0	based of MSD esult 0.932	Units mg/Kg	Dil.	Spi Amo 1	ĸe	Rec. 94	Rec. 93	34	Limit .9 - 15
GRO Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	spike result M Res 0.9 1.1	. RPD is iS M sult R 140 0 08 1	based o MSD .esult	Units	Dil.	Spi Amo	ĸe	Rec.	Rec.	34	Limit 9 - 153
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	spike result M Res 0.9	RPD is iS M sult R 440 0 08 : 125591 Date A	based of MSD esult 0.932	Units mg/Kg mg/Kg : 2007-05	Dil. 1 1-30	Spi Amo 1	ĸe	Rec. 94	Rec. 93 108 Analy	34	Limit .9 - 15: .5 - 15: .5 TG
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609	spike result M Res 0.9 1. d Sample:	. RPD is iS M Mult R Mult R Mu	based of MSD esult 1.08 nalyzed eparatio	Units mg/Kg mg/Kg : 2007-05 n: 2007-05	Dil. 1 1-30 -29	Spi Amo 1 1	ke unt	Rec. 94 108	Rec. 93 108 Analy Prepa	34 58 vzed By vzed By	Limit .9 - 15: .5 - 15: : TG : TG Rec.
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param	spike result M Res 0.9 1. d Sample:	. RPD is iS M Mult R Mult R Mu	based of MSD esult 1.08 nalyzed eparatio Units	Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil.	Dil. 1 1 -30 -29 Spi Amo	Spi Amo 1 1	ke unt Ma Re	Rec. 94 108	Rec. 93 108 Analy Prepa Rec.	34 58 vzed By ared By	Limit .9 - 15: .5 - 1
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) -Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param DRO	spike result M Res 0.9 1. d Sample:	. RPD is is N wilt R 040 0 08 1 125591 Date A QC Pr MS esult 502	based of MSD .932 1.08 .nalyzed eparatio Units mg/Kg	Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. 1	Dil. 1 1 -30 -29	Spi Amo 1 1 1	ke unt Ma Re 1	Rec. 94 108 atrix sult 18	Rec. 93 108 Analy Prepa Rec. 201	34 58 vzed By ared By	Limit .9 - 153 .5 - 153 :- TG :- TG :- TG Rec. Limit
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) -Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param DRO	spike result M Res 0.9 1. d Sample:	. RPD is is N wilt R 040 0 08 1 125591 Date A QC Pr MS esult 502	based of MSD .932 1.08 .nalyzed eparatio Units mg/Kg	Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. 1	Dil. 1 1 -30 -29	Spi Amo 1 1 1	ke unt Ma Re 1	Rec. 94 108 atrix sult 18	Rec. 93 108 Analy Prepa Rec. 201	34 58 vzed By ared By	Limit .9 - 15. .5 - 15. .5 - 15.
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param DRO Percent recovery is based on the	spike result M Res 0.9 1. d Sample: d Sample:	. RPD is is M sult R 440 0 08 : 125591 Date A QC Pr MS esult 502 . RPD is	based of MSD esult .932 1.08 	Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. 1 m the spike Spike	Dil. 1 1 -30 -29 Amo 2: and spi Ma:	Spi Amo 1 1 1 sike punt 50 ke duj trix	ke unt Ma Re 1 olicate	Rec. 94 108 attrix sult 18 result. R	Rec. 93 108 Analy Prepa Rec. 201	34 58 vzed By ared By 47	Limit .9 - 15i .5 - 12i .5 - 12i .5 - 12i
Percent recovery is based on the Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB) Matrix Spike (MS-1) Spike QC Batch: 37678 Prep Batch: 32609 Param DRO Percent recovery is based on the Param	spike result M Res 0.9 1. d Sample:	. RPD is is M sult R 440 0 08 : 125591 Date A QC Pr MS esult 502 . RPD is	based of MSD esult .932 1.08 analyzed eparatio Units mg/Kg based of s Dil	Units mg/Kg mg/Kg : 2007-05 n: 2007-05 Dil. 1 m the spike Spike	Dil. 1 1 -30 -29 Amo 2; and spi Ma: t Res	Spi Amo 1 1 1 sike punt 50 ke duj trix	ke unt Ma Re 1	Rec. 94 108 attrix sult 18 result. R Li	Rec. 93 108 Analy Prepa Rec. 201	34 58 vzed By ared By	Limit .9 - 153 .5 - 153 : TG : TG Rec.

²⁵Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
²⁶Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: June 20, State M SWD	2007			Work Orde State N	er: 7052526 4 SWD	;		Pa	age N	umber: Buck	63 of 71 eve,NM
	MS	MSD				Spike	MS	3	MSD		Rec.
Surrogate	Result	Result		Units	Dil.	Amount	Rec		Rec.		Limit
n-Triacontane	221	228		ng/Kg	1	150	147		152	62	.5 - 164
					· · ·						
Matrix Spike (MS-1) Spiked S	ample: 120	6875							•	
QC Batch: 38253			Date A	nalyzed:	2007-06-3	16			Ana	lyzed By	·: ER
Prep Batch: 33118				eparation:	2007-06-3	16				pared By	
		MS				Spike	Mat	rix			Rec.
Param		Resu		Units	Dil.	Amount	Res		Rec.		Limit
Chloride	27			mg/Kg		62.5	7.11		45		.6 - 117
Percent recovery is bas	ed on the spil	ke result. 1	RPD is								
		MSD			Spike	Matrix		Rec			RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Lim		RPD	Limit
Chloride	28	33.9	mg/K		62.5	7.1162	43	75.6 -		3	20
Matrix Spike (MS-1 QC Batch: 38254		ample: 12	5575 Date A	nalyzed:	2007-06-		fuicane i			lyzed By	
Matrix Spike (MS-1 QC Batch: 38254		ample: 12	5575 Date A			17	pincaue r			lyzed By pared By	
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119		ample: 12	5575 Date A QC Pr	nalyzed: eparation:	2007-06- 2007-06-	17 16 Spike	Mat	rix	Preț	pared By	r: ER. Rec.
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param		ample: 12 MS Resul	5575 Date A QC Pr	nalyzed: eparation: Units	2007-06- 2007-06- Dil.	17 16 Spike Amount	Mat Res	rix ult	Prep Rec.	pared By	r: ER. Rec. Limit
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride) Spiked S	ample: 12 MS Resul 103	5575 Date A QC Pr t	nalyzed: eparation: <u>Units</u> mg/Kg	2007-06- 2007-06- Dil. 5	17 16 Spike Amount 62.5	Mat Res 49.1	rix ult 275	Preț	pared By	r: ER. Rec. Limit
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride) Spiked S	MS Resul 103 ke result.	5575 Date A QC Pr t	nalyzed: eparation: <u>Units</u> mg/Kg	2007-06- 2007-06- Dil. 5	17 16 Amount 62.5 and spike du	Mat Res 49.1	rix ult 275	Prep Rec.	pared By	r: ER Rec. Limit .6 - 117
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas) Spiked S	MS Resul 103 ke result. 1 MSD	5575 Date A QC Pr t. 	unalyzed: eparation: <u>Units</u> mg/Kg based on	2007-06- 2007-06- Dil. 5 the spike a Spike	17 16 Amount 62.5 and spike du Matrix	Mat Res 49.1 plicate 1	rix ult 275 result. Rec	Prep Rec. 86	pared By	r: ER. Rec. Limit .6 - 117 RPD
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param) Spiked S	MS Resul 103 Result. MSD Result.	5575 Date A QC Pr t. RPD is Units	unalyzed: eparation: <u>Units</u> mg/Kg based on Dil.	2007-06- 2007-06- Dil. 5 the spike a Spike Amount	17 16 Amount 62.5 and spike du Matrix Result	Mat Res 49.1 plicate r Rec.	rix ult 275 result. Rec Lim	Prep Rec. 86	75 RPD	r: ER. Rec. Limit .6 - 117 RPD Limit
Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride) Spiked S ed on the spir	MS Resul 103 ke result. 1 MSD Result 107	5575 Date A QC Pr t. RPD is Units mg/Kg	Units mg/Kg based on Dil.	2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5	17 16 Amount 62.5 Ind spike du Matrix Result 49.1275	Mat Res 49.1: plicate p Rec. 92	rix ult 275 result. Rec Lim 75.6 -	Prep Rec. 86	pared By	r: ER Rec. Limit .6 - 11 RPI
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param) Spiked S ed on the spir ed on the spir	MS Resul 103 ke result. 1 MSD Result. 107 ke result. 1 ke result. 1 ke result. 1	5575 Date A QC Pr t. RPD is mg/Kg RPD is 5576 Date A	Units mg/Kg based on Dil.	2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5	17 16 Amount 62.5 and spike du Matrix Result 49.1275 and spike du	Mat Res 49.1: plicate p Rec. 92	rix ult 275 result. Rec Lim 75.6 -	Prep Rec. 86 it 117 Ana	75 RPD	r: ER Rec. Limit .6 - 117 RPD Limit 20
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 38310 Prep Batch: 33169) Spiked S ed on the spir ed on the spir	MS Resul 103 ke result. 1 MSD Result 107 ke result. 1 sample: 12	5575 Date A QC Pr t. RPD is mg/Kg RPD is 5576 Date A QC Pr	Units mg/Kg based on <u>Dil.</u> based on hased on	2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-06- 2007-06-	17 16 Amount 62.5 and spike du Matrix Result 49.1275 and spike du 18 18	Mat Res 49.1 plicate n Rec. 92 plicate n	rix ult 275 result. Rec Lim 75.6 - result.	Prep Rec. 86 it 117 Ana Prep	red By 75 <u>RPD</u> 4 lyzed By bared By	r: ER Rec. Limit .6 - 117 RPD Limit 20 ER
Matrix Spike (MS-1 QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is bas Param Chloride Percent recovery is bas Matrix Spike (MS-1 QC Batch: 38310) Spiked S ed on the spir ed on the spir	MS Resul 103 ke result. 1 MSD Result 107 ke result. 1 sample: 12 MS Result 107 ke result. 1 Sample: 12	5575 Date A QC Pr t. RPD is mg/Kg RPD is 5576 Date A QC Pr S ilt	Units mg/Kg based on <u>Dil.</u> based on hased on	2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-06-	17 16 Amount 62.5 and spike du Matrix Result 49.1275 and spike du 18	Mat Res 49.1 plicate n Rec. 92 plicate n	rix ult 275 result. Rec Lim 75.6 - result.	Prep Rec. 86 it 117 Ana	Pared By 75 RPD 4 lyzed By pared By	r: ER Rec. Limit .6 - 117 RPD Limit 20

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

²⁷Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ²⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ²⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: June 20, State M SWD	2007		Work Ord State	M SWD				ige Ni		eye,NM
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limi		RPD	RPD Limit
Chloride	915	mg/Kg	50	625	141.128	80	75.6 - 1	117	8	20
Percent recovery is base	ed on the spike resul	i. RPD is	based on	the spike a	nd spike du	plicate	result.			
Matrix Spike (MS-1)) Spiked Sample:	125586								
QC Batch: 38312		Date A	nalyzed:	2007-06-1	9			Anal	yzed By	: ER
Prep Batch: 33171			eparation						ared By	
-		U.								
Param		MS esult	Units	Dil.	Spike Amount		trix sult	Rec.		Rec. Limit
Chloride			mg/Kg	1000	12500		40.3	156		.6 - 117
Percent recovery is base	· · · · · · · · · · · · · · · · · · ·									
	MSD			Spike	Matrix		Rec			RPD
Param	Result	t Units	Dil.	Amount	Result	Rec.	Lim		RPD	Limit
Chloride	³¹ 17300	mg/K	g 1000	12500	10840.3	52	75.6 -	117	55	20
Matrix Spike (MS-1) QC Batch: 38352	ed on the spike resul	126122 Date A	based on nalyzed: eparation	2007-06-2	20	plicate	result.		yzed By ared By	
Matrix Spike (MS-1) QC Batch: 38352	ed on the spike resul) Spiked Sample:	126122 Date A QC Pr	nalyzed:	2007-06-2	20 19				ared By	: ER
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202	ed on the spike resul) Spiked Sample:	126122 Date A QC Pr MS	nalyzed: eparation	2007-06-2 :: 2007-06-2	20 19 Spike	Ma	trix	Prep	ared By	: ER Rec.
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param	ed on the spike resul) Spiked Sample: R	126122 Date A QC Pr	nalyzed: eparation Units	2007-06-2	20 19 Spike Amount	Ma Re	trix sult		ared By	: ER Rec. Limit
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride	ed on the spike resul) Spiked Sample: R	126122 Date A QC Pr MS tesult 46.2	unalyzed: eparation Units mg/Kg	2007-06-2 :: 2007-06-2 Dil. 5	20 19 Amount 62.5	Ma Re 2.5	trix sult 371	Prep Rec.	ared By	: ER Rec. Limit
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride	ed on the spike resul) Spiked Sample: R 32 ed on the spike resul	126122 Date A QC Pr MS Lesult 46.2 It. RPD is	unalyzed: eparation Units mg/Kg	2007-06-2 :: 2007-06-2 Dil. 5 a the spike a	20 19 Amount 62.5 nd spike du	Ma Re 2.5	trix sult 371 result.	Prep Rec. 70	ared By	: ER Rec. Limit .6 - 117
Matrix Spike (MS-1 QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base	ed on the spike resul) Spiked Sample: R	126122 Date A QC Pr MS Lesult 46.2 It. RPD is	Units mg/Kg based on	2007-06-2 :: 2007-06-2 Dil. 5	20 19 Amount 62.5	Ma Re 2.5	trix sult 371	Prep Rec. 70	ared By	: ER Rec. <u>Limit</u> .6 - 117 RPD
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param	ed on the spike resul) Spiked Sample: <u>32</u> ed on the spike resul MSD	126122 Date A QC Pr MS Lesult 46.2 It. RPD is	Units mg/Kg based on s Dil.	2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike	20 19 Amount 62.5 nd spike du Matrix	Ma Re 2.5 plicate	trix sult 371 result. Rec	Prep Rec. 70	ared By	: ER Rec. <u>Limit</u> .6 - 117 RPD
•	ed on the spike resul) Spiked Sample: R 32 ed on the spike resul MSD Resul 23 45.4	126122 Date A QC Pr MS tesult 46.2 It. RPD is t Unit mg/K	Units mg/Kg based on s Dil. g 5	2007-06-2 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5	20 19 Amount 62.5 nd spike du Matrix Result 2.5371	Ma Re 2.5 plicate Rec. 68	trix sult 371 result. Rec Limi 75.6 -	Prep Rec. 70	ared By 1 75 RPD	ER Rec. Limit .6 - 117 RPD Limit
Matrix Spike (MS-1 QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base	ed on the spike resul) Spiked Sample: R 32 ed on the spike resul MSD Resul 23 45.4	126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is	Units mg/Kg based on s Dil. g 5	2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 a the spike a	20 19 <u>Spike</u> <u>Amount</u> 62.5 nd spike du Matrix <u>Result</u> 2.5371 nd spike du	Ma Re 2.5 plicate Rec. 68	trix sult 371 result. Rec Limi 75.6 -	Prep Rec. 70 it 117	ared By 1 75 RPD	: ER Rec. <u>Limit</u> <u>RPD</u> <u>Limit</u> 20
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1)	ed on the spike resul) Spiked Sample: R 32 ed on the spike resul MSD Resul 23 45.4	126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A	Units mg/Kg based on s Dil. g 5 based on alyzed:	2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 a the spike a 2007-05-22 ICVs	20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du	Ma Re 2.5 plicate Rec. 68 plicate	result. 75.6 - result. Percer	Prep Rec. 70 it 117 Anal	RPD 2 vzed By	: ER Rec. Limit 6 - 117 RPD Limit 20 : MT
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) QC Batch: 37541	ed on the spike resul) Spiked Sample:	126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A ICV Tru	Units Units mg/Kg based on <u>5</u> Dil. <u>5</u> 5 based on malyzed: 's	2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 a the spike a 2007-03-23 ICVs Found	20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du	Ma Re 2.5 plicate Rec. 68 plicate	result. 75.6 - result. Percer Recove	Prep Rec. 70 it 117 Analy nt ry	ared By 75 RPD 2 vzed By	: ER Rec. Limit 6 - 117 RPD Limit 20 : MT Date
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) QC Batch: 37541 Param Fi	ed on the spike resul) Spiked Sample:	126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A ICV Tru Com	Units mg/Kg based on <u>5</u> Dil. <u>5</u> 5 based on nalyzed: ⁷ s e c.	2007-06-2 Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-05-22 ICVs Found Conc.	20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du ICVs Percent Recovery	Ma Re 2.5 plicate Rec. 68 plicate	result. 371 result. Rec Limi 75.6 - result. Percer Recove Limit:	Prep Rec. 70 it 117 Analy nt ry s	ared By 75 RPD 2 vzed By Ar	: ER Rec. Limit 6 - 117 RPD Limit 20 : MT
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) QC Batch: 37541 Param Fi Benzene	ed on the spike resul) Spiked Sample:	126122 Date A QC Pr MS tesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A ICV Tru Com 0.10	Units mg/Kg based on s Dil. g 5 based on nalyzed: 's e c. 00	2007-06-2 :: 2007-06-2 Dil. 5 a the spike a Spike Amount 62.5 a the spike a 2007-05-22 ICVs Found Conc. 0.0996	20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du ICVs Percent Recovery 100	Ma Re 2.5 plicate Rec. 68 plicate	result. 371 result. 75.6 - result. Percer Recove Limit: 85 - 11	Prep Rec. 70 it 117 Analy nt ry s 15	ared By 75 RPD 2 vzed By Ar 200	: ER Rec. Limit 6 - 117 RPD Limit 20 : MT Date nalyzed 7-05-25
Matrix Spike (MS-1) QC Batch: 38352 Prep Batch: 33202 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Standard (ICV-1) QC Batch: 37541 Param Fi	ed on the spike resul) Spiked Sample:	126122 Date A QC Pr MS Lesult 46.2 It. RPD is t Unit: mg/K It. RPD is Date A ICV Tru Com	Units mg/Kg based on s Dil. g 5 based on nalyzed: 7s e c. 00	2007-06-2 Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-05-22 ICVs Found Conc.	20 19 Spike Amount 62.5 nd spike du Matrix Result 2.5371 nd spike du ICVs Percent Recovery	Ma Re 2.5 plicate Rec. 68 plicate	result. 371 result. Rec Limi 75.6 - result. Percer Recove Limit:	Prep Rec. 70	ared By 75 RPD 2 vzed By Ar 200 200	: ER Rec. Limit 6 - 117 RPD Limit 20 : MT

³⁰Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³¹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control. ³¹Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ³²Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ³³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control. ³³Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: June 20, : State M SWD	2007		W	vork Orde State N	er: 7052526 4 SWD			Page N	umber: (Buck	13 01 71 eve,NM
Surrogate	MS Result	MSD Result	U	Dnits	Dil.	Spike Amount	MS Rec.	MSD Rec.]	Rec. Limit
n-Triacontane	221	228	m	g/Kg	3	150	147	152	62.	5 - 164
Matrix Spike (MS-1)	Spiked Sa	mple: 12 <u>6</u> 8	875							
QC Batch: 38253 Prep Batch: 33118	·			nalyzed: paration:	2007-06-1 2007-06-1				lyzed By pared By	
Param		MS Result	t	Units	Dil.	Spike Amount	Matı Resi		.]	Rec. Limit
Chloride	27	35.0	1	mg/Kg	5	62.5	7.11	62 45	75	.6 - 117
Percent recovery is base	d on the spike	e result. Ri	PD is l	based on	the spike a	nd spike du	plicate r	esult.		
Param		MSD Result	Timite	וירד	Spike	Matrix	Der	Rec. Limit	RPD	RPD
Chloride			Units mg/Kg	Dil.	Amount 62.5	Result. 7.1162		1000000000000000000000000000000000000		Limit 20
Matrix Spike (MS-1) QC Batch: 38254		umple: 1253 D	575 Date Ar	nalyzed: paration:	2007-06-1	17	ipiicate i	Ana	dyzed By pared By	
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119		umple: 1255 D C MS	575)ate Ar }C Prej	nalyzed: paration:	2007-06-1 2007-06-1	17 16 Spike	Matu	Ana Pre	pared By	r: ER Rec.
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param		umple: 1255 D C MS Result.	575)ate Ar)C Prej 1	nalyzed: paration: Units	2007-06-1 2007-06-1 Dil.	17 16 Spike Amount	Matı Resu	Ana Pre rix dt Rec	pared By	r: ER Rec. Limit
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride) Spiked Sa	ample: 1255 D C MS Result 103	575 Date Ar QC Prej I	nalyzed: paration: Units ng/Kg	2007-06- 2007-06- Dil. 5	17 16 Spike Amount 62.5	Matr Resu 49.12	Ana Pre rix alt Rec 275 86	pared By	r: ER Rec. Limit
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride) Spiked Sa	ample: 1255 D Q MS Result 103 e result. R	575 Date Ar QC Prej I	nalyzed: paration: Units ng/Kg	2007-06- 2007-06- Dil. 5 the spike a	17 16 Amount 62.5 nd spike du	Matr Resu 49.12	Ana Pre rix 11 Rec 275 86 esult.	pared By	r: ER Rec. Limit .6 - 117
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base) Spiked Sa	ample: 1255 D Q MS Result 103 e result. R MSD	575 Date Ar QC Prej I m PD is 1	nalyzed: paration: Units ag/Kg based on	2007-06- 2007-06- Dil. 5 the spike a Spike	17 16 Amount 62.5 nd spike du Matrix	Mata Resu 49.12 uplicate r	Ana Pre rix 11 Rec 275 86 esult. Rec.	pared By 75	Rec. Limit .6 - 117 RPD
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base Param) Spiked Sa	MS Result 103 e result. R MSD Result	575 Date Ar QC Prej I	nalyzed: paration: Units ng/Kg	2007-06- 2007-06- Dil. 5 the spike a	17 16 Amount 62.5 nd spike du	Matr Resu 49.12	Ana Pre rix 11 Rec 275 86 esult.	pared By	Rec. Limit .6 - 117 RPD
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base Param Chloride Percent recovery is base) Spiked Sa ed on the spik	MS Result. MS Result. 103 e result. MSD Result 107 m	575 Date Ar 2C Prej D is 1 PD is 1 Units ng/Kg PD is 1	nalyzed: paration: Units ng/Kg based on Dil. E	2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5	17 16 Amount 62.5 nd spike du Matrix Result 49.1275	Matu Resu 49.12 iplicate r Rec. 92	Ana Pre lt Rec 275 86 esult. Rec. Limit 75.6 - 117	pared By	Rec. Limit .6 - 117 RPD Limit
•) Spiked Sa ed on the spik	MS Result 103 e result. R MSD Result 107 n e result. R ample: 1253	575 Date Ar 2C Prej PD is 1 Units ng/Kg PD is 1 576 Date Ar	nalyzed: paration: Units ng/Kg based on Dil. E	2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-06-	17 16 Amount 62.5 nd spike du Matrix Result 49.1275 nd spike du	Matu Resu 49.12 iplicate r Rec. 92	Ana Pre rix alt Rec 275 86 esult. Rec. Limit 75.6 - 117 esult. Ana	pared By	r: ER Rec. Limit .6 - 117 RPD Limit 20
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Matrix Spike (MS-1) QC Batch: 38310 Prep Batch: 33169) Spiked Sa ed on the spik	MS Result 103 e result. R MSD Result 107 m e result. R ample: 1253 L MS	575 Date Ar QC Prej PD is 1 Units ng/Kg PD is 1 576 Date Ar QC Pre	nalyzed: paration: Units ng/Kg based on Dil. E based on nalyzed: paration:	2007-06- 2007-06- 5 the spike a Spike Amount 62.5 the spike a 2007-06- 2007-06-	17 16 Amount 62.5 nd spike du Matrix Result 49.1275 nd spike du 18 18	Matu Resu 49.12 uplicate r Rec. 92 uplicate r Mat	Ana Pre rix alt Rec 275 86 esult. Rec. Limit 75.6 - 117 result. Ana Pre	RPD 4 alyzed By pared By	r: ER Rec. Limit <u>(6 - 117</u> <u>RPD</u> Limit <u>20</u> r: ER r: ER Rec.
Matrix Spike (MS-1) QC Batch: 38254 Prep Batch: 33119 Param Chloride Percent recovery is base Param Chloride Percent recovery is base Matrix Spike (MS-1) QC Batch: 38310) Spiked Sa ed on the spik	MS Result 103 e result. R MSD Result 107 m e result. R ample: 1253	575 Date Ar QC Prej PD is 1 Units ng/Kg PD is 1 576 Date Ar QC Pre t	nalyzed: paration: Units ag/Kg based on Dil. 2 based on based on	2007-06- 2007-06- Dil. 5 the spike a Spike Amount 62.5 the spike a 2007-06-	17 16 Spike Amount 62.5 nd spike du Matrix Result 49.1275 nd spike du 18	Matu Resu 49.12 iplicate r Rec. 92 iplicate r	Ana Pre rix alt Rec 275 86 esult. Rec. Limit 75.6 - 117 result. Ana Pre rix ult Rec	RPD 4 alyzed By pared By	r: ER Rec. Limit .6 - 117 RPD Limit 20

²⁷Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ²⁸Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
 ²⁹Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

State M SWD	ne 20, 2001	7		k Order: 70525: State M SWD	26	Page Nu	mber: 65 of 7 Buckeye,NN
standard continue	ed						
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Xylene		mg/Kg	0.300	0.293	98	85 - 115	2007-05-23
Standard (CCV	/-1)					•	
QC Batch: 3754	11		Date Analy	zed: 2007-05-2	25	Analy	vzed By: MT
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene	<u> </u>	mg/Kg	0.100	0.0984	98	85 - 115	2007-05-2
Toluene		mg/Kg	0.100	0.0970	97	85 - 115	2007-05-2
Ethylbenzene		mg/Kg	0.100	0.0944	94	85 - 115	2007-05-2
Xvlene		mg/Kg	0.300	0.282	94	85 - 115	2007-05-2
Standard (ICV	-1)						
QC Batch: 3754	13		Date Analy	zed: 2007-05-:	25	Analy	vzed By: MT
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param F	lag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.886	89	85 - 115	2007-05-2
Standard (CCV	V-1)						
QC Batch: 3754	19		Date Analy	zed: 2007-05-	25	Analy	yzed By: MT
QC Daton. 5/04	£9			CCVs	CCVs	Percent	
GC Daton. 3734	τð		CCVs		0010		
	ŧð		CCVs True	Found	Percent	Recovery	Date
	lag	Units	• ·	Found Conc.		Recovery Limits	
Param F		Units mg/Kg	True		Percent	•	Analyzed
Param F GRO	lag		True Conc.	Conc.	Percent Recovery	Limits	Date Analyzed 2007-05-2
	lag		True Conc.	Conc. 0.901	Percent Recovery 90	Limits 85 - 115	Analyzed
Param F GRO Standard (ICV	lag		True Conc. 1.00 Date Analy ICVs	Conc. 0.901 vzed: 2007-05- ICVs	Percent Recovery 90 25 ICVs	Limits 85 - 115 Analy Percent	Analyzed 2007-05-2 yzed By: MT
Param F GRO Standard (ICV QC Batch: 3754	lag -1) 16	mg/Kg	True Conc. 1.00 Date Analy ICVs True	Conc. 0.901 vzed: 2007-05- ICVs Found	Percent Recovery 90 25 ICVs Percent	Limits 85 - 115 Analy Percent Recovery	Analyzed 2007-05-2 yzed By: MT Date
Param F GRO Standard (ICV QC Batch: 3754 Param	lag	mg/Kg Units	True Conc. 1.00 Date Analy ICVs True Conc.	Conc. 0.901 vzed: 2007-05- ICVs Found Conc.	Percent Recovery 90 25 ICVs Percent Recovery	Limits 85 - 115 Analy Percent Recovery Limits	Analyzed 2007-05-2 yzed By: MT Date Analyzed
Param F GRO Standard (ICV QC Batch: 3754 Param Benzene	lag -1) 16	mg/Kg Units mg/Kg	True Conc. 1.00 Date Analy ICVs True Conc. 0.100	Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992	Percent Recovery 90 25 25 ICVs Percent Recovery 99	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115	Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2
Param F GRO Standard (ICV QC Batch: 3754 Param Benzene Toluene	lag -1) 16	Units mg/Kg mg/Kg	True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100	Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 0.0994	Percent Recovery 90 25 25 ICVs Percent Recovery 99 99	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115	Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 2007-05-2
Param F GRO Standard (ICV QC Batch: 3754 Param Benzene Toluene Ethylbenzene	lag -1) 16	Units mg/Kg mg/Kg mg/Kg mg/Kg	True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100	Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 0.0994 0.0959	Percent Recovery 90 25 25 ICVs Percent Recovery 99 99 99 96	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115	Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 2007-05-2 2007-05-2
Param F GRO Standard (ICV	lag -1) 16	Units mg/Kg mg/Kg	True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100	Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 0.0994	Percent Recovery 90 25 25 ICVs Percent Recovery 99 99	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115	Analyzed 2007-05-2 yzed By: MT
Param F GRO Standard (ICV QC Batch: 3754 Param Benzene Toluene Ethylbenzene	lag -1) 16 Flag	Units mg/Kg mg/Kg mg/Kg mg/Kg	True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100	Conc. 0.901 vzed: 2007-05- ICVs Found Conc. 0.0992 0.0994 0.0959	Percent Recovery 90 25 25 ICVs Percent Recovery 99 99 99 96	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115	Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 2007-05-2 2007-05-2
Param F GRO Standard (ICV QC Batch: 3754 Param Benzene Toluene Ethylbenzene Xylene	lag -1) 16 Flag V-1)	Units mg/Kg mg/Kg mg/Kg mg/Kg	True Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100	Conc. 0.901 vzed: 2007-05- ICV's Found Conc. 0.0992 0.0994 0.0959 0.286	Percent Recovery 90 25 ICVs Percent Recovery 99 99 99 95	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115	Analyzed 2007-05-2 yzed By: MT Date Analyzed 2007-05-2 2007-05-2 2007-05-2

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Report Date: Jun State M SWD	e 20, 200	7		k Order: 70525 State M SWD	.26	Page N	umber: 66 of 71 Buckeye,NM
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 2007-05-25
Ethylbenzene Xylene		mg/Kg Mg/Kg	0.100 0.300	0.0923 0.281	92 94	85 - 115 85 - 115	2007-05-25
Standard (ICV-	1)						
QC Batch: 37547	-		Date Analy	zed: 2007-05-	25	Anal	yzed By: MT
			lCVs	ICVs	ICVs	Percent	
-			True	Found	Percent	Recovery	Date
Param Fla	ug	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.875	88	85 - 115	2007-05-25
Standard (CCV-	-1)						
QC Batch: 37547	7		Date Analy	zed: 2007-05-	25	Anal	vzed By: MT
			CCVs	CCVs	CCVs	Percent	D .
			m				
Duran El		Tinite	True	Found	Percent	Recovery	Date
	rg	Units mg/Kg	True Conc. 1.00	Found Conc. 0.939	Percent Recovery 94	Recovery Limits 85 - 115	Date Analyzed 2007-05-25
Param Fla GRO Standard (ICV- QC Batch: 37548	1)		Conc.	Conc. 0.939	Recovery 94	Limits 85 - 115	Analyzed
GRO Standard (ICV-	1)		Conc. 1.00	Conc. 0.939	Recovery 94	Limits 85 - 115	Analyzed 2007-05-25
GRO Standard (ICV-	1)		Conc. 1.00 Date Analy	Conc. 0.939 rzed: 2007-05-	Recovery 94 25	Limits 85 - 115 Anal	Analyzed 2007-05-25
GRO Standard (ICV- QC Batch: 37548	1)	mg/Kg Units	Conc. 1.00 Date Analy ICVs True Conc.	Conc. 0.939 rzed: 2007-05- ICVs	Recovery 94 25 ICVs	Limits 85 - 115 Anal Percent	Analyzed 2007-05-2; vzed By: MT Date Analyzed
GRO Standard (ICV- QC Batch: 37548 Param Benzene	1)	mg/Kg Units mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100	Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946	Recovery 94 25 ICVs Percent Recovery 95	Limits 85 - 115 Anal: Percent Recovery Limits 85 - 115	Analyzed 2007-05-25 yzed By: MT Date Analyzed 2007-05-25
GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene	1)	units mg/Kg mg/Kg mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100	Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945	Recovery 94 25 ICVs Percent Recovery 95 94	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115	Analyzed 2007-05-23 vzed By: MT Date Analyzed 2007-05-23 2007-05-23
GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene	1)	Units mg/Kg mg/Kg mg/Kg mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100	Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896	Recovery 94 25 25 Percent Recovery 95 94 90	Limits <u>85 - 115</u> Analy Percent Recovery Limits <u>85 - 115</u> <u>85 - 115</u> <u>85 - 115</u> <u>85 - 115</u>	Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25
GRO Standard (ICV-	1) Flag	units mg/Kg mg/Kg mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100	Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945	Recovery 94 25 ICVs Percent Recovery 95 94	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115	Analyzed 2007-05-25 vzed By: MT Date
GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV-	1) 5 Flag -1)	Units mg/Kg mg/Kg mg/Kg mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100	Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 0.270	Recovery 94 25 ICVs Percent Recovery 95 94 90 90	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115	Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25
GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene	1) 5 Flag -1)	Units mg/Kg mg/Kg mg/Kg mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs	Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0945 0.0896 0.270 rzed: 2007-05- CCVs	Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115	Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 2007-05-25
GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV- QC Batch: 37548	1) 5 Flag -1)	Units mg/Kg mg/Kg mg/Kg mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs True	Conc. 0.939 rzed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 0.270 rzed: 2007-05- CCVs Found	Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs Percent	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 115	Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25
GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV- QC Batch: 37548 Param	1) 5 Flag -1)	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs True Conc.	Conc. 0.939 Zed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 0.270 Zed: 2007-05- CCVs Found COVs Found Conc.	Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs Percent Recovery	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 15 - 15 85 - 15 -	Analyzed 2007-05-25 yzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25
GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV-	1) 5 Flag -1)	Units mg/Kg mg/Kg mg/Kg mg/Kg Mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs True Conc. 0.100 0.300	Conc. 0.939 7zed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0945 0.0896 0.270 7zed: 2007-05- CCVs Found Conc. 0.0966	Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs Percent Recovery 97	Limits 85 - 115 Anal; Percent Recovery Limits 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 85 - 115 Anal; Percent Recovery Limits 85 - 115	Analyzed 2007-05-25 vzed By: MT Date Analyzed 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25 2007-05-25
GRO Standard (ICV- QC Batch: 37548 Param Benzene Toluene Ethylbenzene Xylene Standard (CCV- QC Batch: 37548 Param Benzene	1) 5 Flag -1)	Units mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Conc. 1.00 Date Analy ICVs True Conc. 0.100 0.100 0.100 0.300 Date Analy CCVs True Conc.	Conc. 0.939 Zed: 2007-05- ICVs Found Conc. 0.0946 0.0945 0.0896 0.270 Zed: 2007-05- CCVs Found COVs Found Conc.	Recovery 94 25 ICVs Percent Recovery 95 94 90 90 90 25 CCVs Percent Recovery	Limits 85 - 115 Analy Percent Recovery Limits 85 - 115 85 - 15 - 15 85 - 15 -	Analyzed 2007-05-25 yzed By: MT Date Analyzed 2007-05-25 2007-05-2

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Report Dat State M SV	te: June 20, 20 WD	007		ork Order: 7052 State M SWD		Page N	umber: 67 of 7 Buckeye,NN
Standard	(ICV-1)						
QC Batch:	37549		Date Ana	dyzed: 2007-03	5-25	Anal	vzed By: MT
			ICVs	ICVs	ICVs	Percent	T
Param	Flue	Units	True	Found	Percent	Recovery	Date
GRO	Flag	mg/Kg	<u> </u>	<u> </u>	Recovery 92	Limits 85 - 115	Analyzed 2007-05-2
<u> </u>		ing/11g	1.00	0.922		00-110	2001-00-20
Standard	(CCV-1)						
QC Batch:	37549		Date Ana	dyzed: 2007-0	5-25	Anal	yzed By: MT
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2007-05-2
Standard QC Batch:			Date Ana	alyzed: 2007-0	5-26	Anal	yzed By: TG
			ICVs	ICVs	ICVs	Percent	
-			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzec
DRO		mg/Kg	250	212	85	85 - 115	2007-05-2
Standard	(CCV-1)						
QC Batch:	37553		Date Ana	alyzed: 2007-0	5-26	Anal	yzed By: TG
			CCVs	CCVs	CCVs	Percent	
			Irue	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	222	89	85 - 115	2007-05-2
Standard	(CCV-2)						
QC Batch:			Date An	alyzed: 2007-0	5-26	Ana	lyzed By: TG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
				Conc.	Recovery	Limits	Analyzed
Param	Flag	Units	Conc.	Conc.		1/111103	Analyzet

QC Batch: 37554

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Date Analyzed: 2007-05-26

Analyzed By: TG

Report Dat State M SW	e: June 20, 20 VD			k Order: 70525 State M SWD	26	Page Nu	mber: 68 of 71 Buckeye,NM
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	214	80	85 - 115	2007-05-26
Standard ((CCV-1)						
QC Batch:	. ,		Date Anal	yzed: 2007-05-	26	Anal	yzed By: TG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Dare
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	219	88	85 - 115	2007-05-26
04 a.u. d.a.u. d. u							
Standard (QC Batch:	. ,		Date Anal	yzed: 2007-05-	-26	Anal	yzed By: TG
·				-			, - . - .
			CCVs	CCVs	CCVs	Percent	_
-	~	** .	Irue	Found	Percent	Recovery	Date
Unwown	Flag	Units	Conc.	Conc.	Recovery 85	Limits 85 - 115	Analyzed 2007-05-20
		mg/Kg	250	212			
Param DRO Standard		mg/Kg	230	212			
DRO Standard	(ICV-1)	mg/Kg		yzed: 2007-05		Anal	yzed By: TG
DRO Standard	(ICV-1)	mg/Kg	Date Anal	yzed: 2007-05	-26		
DRO Standard	(ICV-1)	mg/Kg				Anal Percent Recovery	
DRO Standard QC Batch:	(ICV-1)	mg/Kg	Date Anal ICVs	yzed: 2007-05 ICVs	-26 ICVs	Percent	yzed By: TG
DRO Standard QC Batch: Param	(ICV-1) 37555		Date Anal ICVs True	yzed: 2007-03 ICVs Found	-26 ICVs Percent	Percent Recovery	yzed By: TG Date Analyzed
DRO	(ICV-1) 37555 Flag	Units	Date Anal ICVs True Conc.	yzed: 2007-05 ICVs Found Conc.	-26 ICVs Percent Recovery	Percent Recovery Limits	yzed By: TG Date
DRO Standard QC Batch: Param DRO Standard	(ICV-1) 37555 Flag (CCV-1)	Units	Date Anal ICVs True Conc.	yzed: 2007-05 ICVs Found Conc. 250	-26 ICVs Percent Recovery 100	Percent Recovery Limits 85 - 115	yzed By: TG Date Analyzed
DRO Standard QC Batch: Param DRO Standard	(ICV-1) 37555 Flag (CCV-1)	Units	Date Anal ICVs True Conc. 250 Date Anal CCVs	yzed: 2007-05 ICVs Found Conc. 250 yzed: 2007-05 CCVs	-26 ICVs Percent Recovery 100 -26 CCVs	Percent Recovery Limits 85 - 115 Anal Percent	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG
DRO Standard QC Batch: Param DRO Standard QC Batch:	(ICV-1) 37555 Flag (CCV-1) 37555	Units mg/Kg	Date Anal ICVs True Conc. 250 Date Anal CCVs True	yzed: 2007-05 ICVs Found Conc. 250 yzed: 2007-05 CCVs Found	-26 ICVs Percent Recovery 100 -26 CCVs Percent	Percent Recovery Limits 85 - 115 Anal Percent Recovery	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date
DRO Standard QC Batch: Param DRO Standard QC Batch: Param	(ICV-1) 37555 Flag (CCV-1)	Units mg/Kg Units	Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc.	yzed: 2007-05 ICVs Found Conc. 250 yzed: 2007-05 CCVs Found Conc.	-26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery	Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO	(ICV-1) 37555 Flag (CCV-1) 37555 Flag	Units mg/Kg	Date Anal ICVs True Conc. 250 Date Anal CCVs True	yzed: 2007-05 ICVs Found Conc. 250 yzed: 2007-05 CCVs Found	-26 ICVs Percent Recovery 100 -26 CCVs Percent	Percent Recovery Limits 85 - 115 Anal Percent Recovery	yzed By: TG Date Analyzed 2007-05-26 yzed By: TG Date
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard	(ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1)	Units mg/Kg Units	Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250	yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230	-26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92	Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard	(ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1)	Units mg/Kg Units	Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc.	yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230	-26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92	Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed
DRO Standard QC Batch: Param DRO	(ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1)	Units mg/Kg Units	Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs	yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs	-26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs	Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent	yzed By: TG Date Analyzed 2007-05-26 yzed By: TG Date Analyzed 2007-05-26 yzed By: KB
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch:	(ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) 37618	Units mg/Kg Units mg/Kg	Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs True	yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs Found	-26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs Percent	Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery.	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 yzed By: KB Date
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch: Param	(ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1)	Units mg/Kg Units mg/Kg g Units	Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs True Conc.	yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs Found COVs Found Conc.	-26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs Percent Recovery	Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 yzed By: KB Date Analyzed
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch: Param Benzene	(ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) 37618	Units mg/Kg Units mg/Kg g Units mg/Kg	Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs True Conc. 0.100	yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs Found Conc. 0.0936	-26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs Percent Recovery 94	Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 yzed By: KB Date Analyzed 2007-05-25
DRO Standard QC Batch: Param DRO Standard QC Batch: Param DRO Standard QC Batch: Param	(ICV-1) 37555 Flag (CCV-1) 37555 Flag (ICV-1) 37618 Fla	Units mg/Kg Units mg/Kg g Units	Date Anal ICVs True Conc. 250 Date Anal CCVs True Conc. 250 Date Anal ICVs True Conc.	yzed: 2007-05- ICVs Found Conc. 250 yzed: 2007-05- CCVs Found Conc. 230 yzed: 2007-05 ICVs Found COVs Found Conc.	-26 ICVs Percent Recovery 100 -26 CCVs Percent Recovery 92 -29 ICVs Percent Recovery	Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits 85 - 115 Anal Percent Recovery Limits	yzed By: TG Date Analyzed 2007-05-20 yzed By: TG Date Analyzed 2007-05-20 yzed By: KB Date Analyzed

Report Dat State M SW	e: June 20, 200 VD	J7		k Order: 70525 State M SWD	26	Page Nu	umber: 69 of 71 Buckeye,NM
standard cor	ntinued						
			ICVs	ICVs	ICVs	Percent	
			Irue	Found	Percent	Recovery'	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Xylene		mg/Kg	0.300	0.265	88	85 - 115	2007-05-29
Standard ((CCV-1)						
QC Batch:	37618		Date Analy	yzed: 2007-05-	-29	Anal	yzed By: KB
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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
Ethylbenzer	ie.	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 (QC Batch:	` '		Date Anal	yzed: 2007-05-	-29	Anal	yzed By: KB
			ICVs		ICVs	Davaand	
			True	ICVs Found	Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO	1 1005	mg/Kg	1.00	0.890	89	85 - 115	2007-05-2
Standard ((CCV-1)						
QC Batch:	37619		Date Anal	yzed: 2007-05	-29	Anal	yzed By: KB
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	1.09	109	85 - 115	2007-05-2
Standard ((CCV-1)						
QC Batch:	37678		Date Anal	vzed: 2007-05	-30	Anal	yzed By: TG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
DRO		mg/Kg	250	274	110	85 - 115	2007-05-3
Standard ((CCV-2)						

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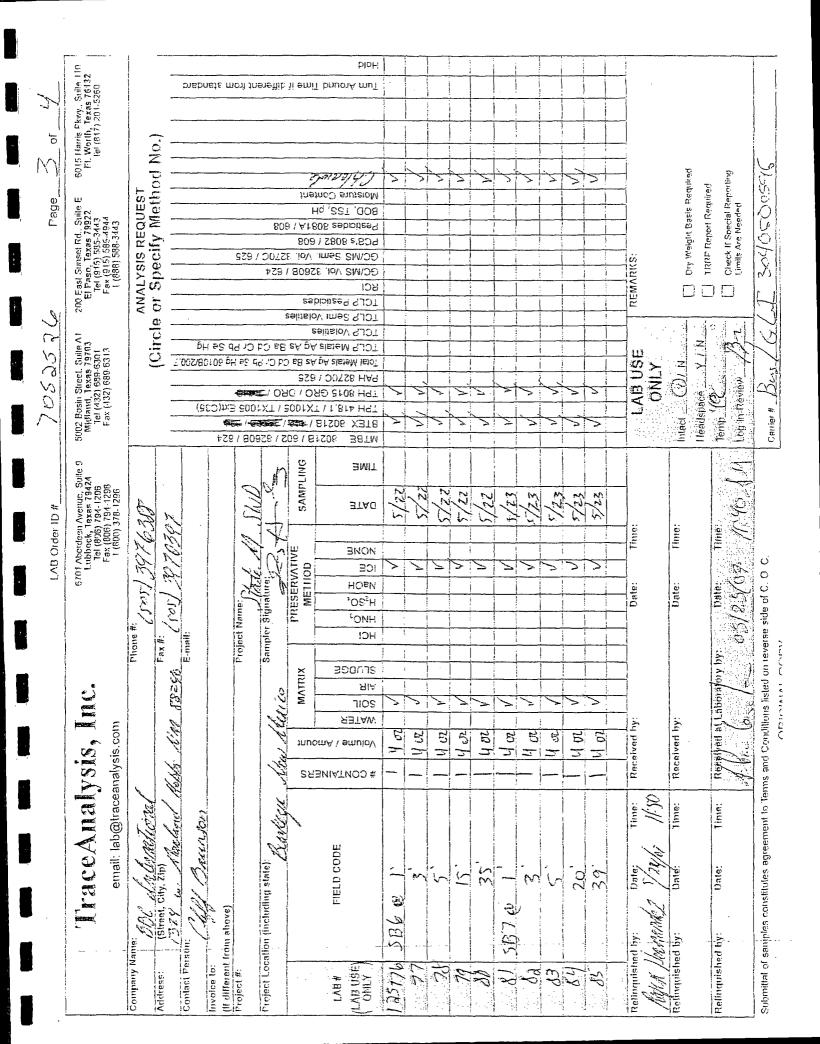
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Report Dat State M SV	e: June 20, 20 VD	007	Wo	ork Order: 7052 State M SWD	526	Page Ni	mber: 70 of 71 Buckeye,NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	248	99	85 - 115	2007-05-30
Standard	(ICV-1)						
QC Batch:	38253		Date Ana	lyzed: 2007-00	-16	Anal	yzed By: ER
			ICVs True	ICVs Found	ICVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	12.5	13.1	105	90 - 110	2007-06-10
Standard	(CCV-1)						
QC Batch:	38253		Date Ana	lyzed: 2007-06	5-16	Anal	yzed By: ER
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	12.5	13.1	105	90 - 110	2007-06-10
Standard	(ICV-1)						
QC Batch:	38254		Date Ana	dyzed: 2007-06	6-17	Anal	yzed By: ER
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	12.5	13.1	105	90 - 110	2007-06-17
Standard	(CCV-1)						
QC Batch:	38254		Date Ana	dyzed: 2007-00	3-17	Anal	yzed By: ER
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	12.5	13.0	104	90 - 110	2007-06-17
Standard	(ICV-1)						
QC Batch:	38310		Date Ana	lyzed: 2007-0	3-18	Ana	yzed By: ER
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
-							
Param Chloride	Flag	Units mg/Kg	<u>Conc.</u> 12.5	<u> </u>	Recovery 103	Limits 90 - 110	Analyzed 2007-06-18

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Standard (C	CCV-1)						
QC Batch:	38310		Date Anal	yzed: 2007-06	-18	Anal	yzed By: ER
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	12.5	12.9	103	90 - 110	2007-06-1
Standard (I	CV-1)						
QC Batch:	38312		Date Anal	yzed: 2007-06	5-19	Anal	yzed By: ER
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride	0	mg/Kg	12.5	12.9	103	90 - 110	2007-06-1
Standard (C QC Batch:	•			lyzed: 2007-06			vzed By: EF
	•		Date Ana CCVs True	lyzed: 2007-06 CCVs Found)-19 CCVs Percent	Anal Percent Recovery	yzed By: EF Date
QC Batch:	•	Units	CCVs	CCVs	CCVs	Percent	Date
QC Batch:	38312	Units mg/Kg	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date Analyzed
QC Batch: Param Chloride	38312 Flag		CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
QC Batch:	38312 Flag CV-1)		CCVs True Conc.	CCVs Found Conc. 24.0	CCVs Percent Recovery 96	Percent Recovery Limits 90 - 110	Date Analyzed 2007-06-1
QC Batch: Param Chloride Standard (J	38312 Flag CV-1)		CCVs True Conc. 25.0	CCVs Found Conc. 24.0	CCVs Percent Recovery 96	Percent Recovery Limits 90 - 110	Date Analyzed 2007-06-1
QC Batch: Param Chloride Standard (J	38312 Flag CV-1) 38352		CCVs True Conc. 25.0 Date Ana	CCVs Found Conc. 24.0	CCVs Percent <u>Recovery</u> 96	Percent Recovery Limits 90 - 110 Anal	Date Analyzed 2007-06-1
QC Batch: Param Chloride Standard (I QC Batch: Param	38312 Flag CV-1)	mg/Kg Units	CCVs True Conc. 25.0 Date Ana ICVs True Conc.	CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found Conc.	CCVs Percent <u>Recovery</u> 96 -20 ICVs	Percent Recovery Limits 90 - 110 Anal Percent Recovery Limits	Date Analyzed 2007-06-1 Lyzed By: ER Date Analyzed
QC Batch: Param Chloride Standard (I QC Batch:	38312 Flag CV-1) 38352	mg/Kg	CCVs True <u>Conc.</u> 25.0 Date Ana ICVs True	CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found	CCVs Percent Recovery 96 3-20 ICVs Percent	Percent Recovery Limits 90 - 110 Anal Percent Recovery	Date Analyzed 2007-06-1 Lyzed By: ER Date Analyzed
QC Batch: Param Chloride Standard (I QC Batch: Param	38312 Flag CV-1) 38352 Flag	mg/Kg Units	CCVs True Conc. 25.0 Date Ana ICVs True Conc.	CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found Conc.	CCVs Percent Recovery 96 3-20 ICVs Percent Recovery	Percent Recovery Limits 90 - 110 Anal Percent Recovery Limits	Date Analyzed 2007-06-1 Lyzed By: ER Date Analyzed
QC Batch: Param Chloride Standard (J QC Batch: Param Chloride Standard (C	38312 Flag CV-1) 38352 Flag CCV-1)	mg/Kg Units	CCVs True Conc. 25.0 Date Ana ICVs True Conc.	CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found Conc. 11.3	CCVs Percent Recovery 96 3-20 ICVs Percent Recovery 90	Percent Recovery Limits 90 - 110 Anal Percent Recovery Limits 90 - 110	Date Analyzed 2007-06-1 yzed By: EF Date Analyzed 2007-06-2
QC Batch: Param Chloride Standard (J QC Batch: Param Chloride	38312 Flag CV-1) 38352 Flag CCV-1)	mg/Kg Units	CCVs True Conc. 25.0 Date Ana ICVs True Conc. 12.5	CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found Conc. 11.3	CCVs Percent Recovery 96 3-20 ICVs Percent Recovery 90	Percent Recovery Limits 90 - 110 Anal Percent Recovery Limits 90 - 110 Anal	Analyzed 2007-06-1 yzed By: ER
QC Batch: Param Chloride Standard (J QC Batch: Param Chloride Standard (C	38312 Flag CV-1) 38352 Flag CCV-1)	mg/Kg Units	CCVs True Conc. 25.0 Date Ana ICVs True Conc. 12.5 Date Ana	CCVs Found Conc. 24.0 lyzed: 2007-06 ICVs Found Conc. 11.3	CCVs Percent Recovery 96 3-20 ICVs Percent Recovery 90	Percent Recovery Limits 90 - 110 Anal Percent Recovery Limits 90 - 110	Date Analyzed 2007-06-1 yzed By: ER Date Analyzed 2007-06-2
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APPENDIX III

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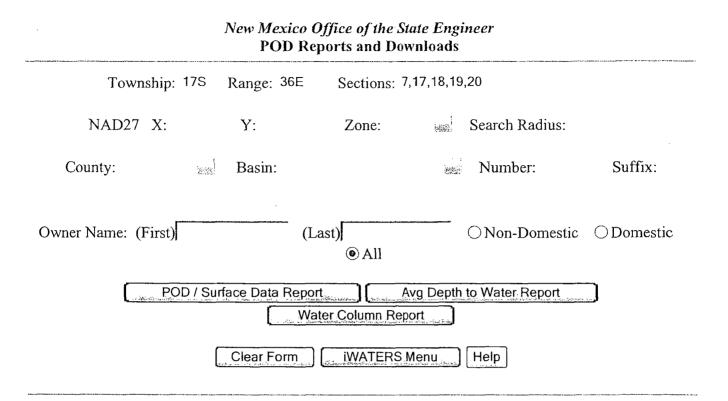
INVENTORY OF WATER WELLS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM

> Prepared by: BBC International, Inc.



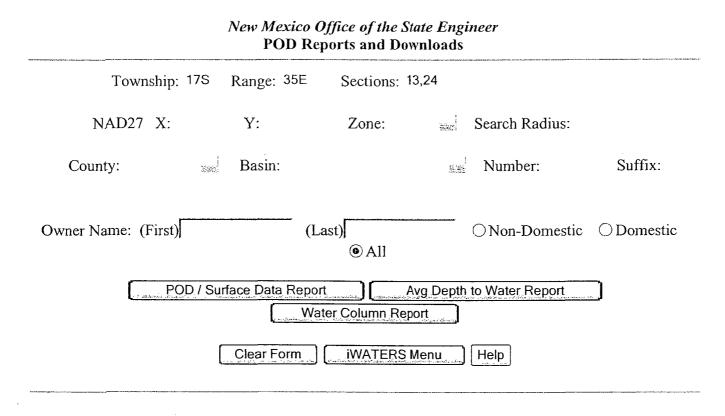
WATER COLUMN REPORT 07/25/2007

(quarters are 1=NW 2=NE 3=SW 4=SE)

((quarter	s are b	igg	est	to:	smallest)			Depth	Depth	Wate
POD Number	Tws	Rng Se	c q	đ	đ	Zone	х	Y	Well	Water	Colum
L 04602	17s	36E 17	3	4	2				115	45	7
L 04602 APPRO	17s	36E 17	4	3	2				115	45	5
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	Ę
L 10681	17S	36E 19	4	1					120	40	5
L 05361	17s	36E 20							123	90	Э
L 09342	17s	36E 20							138	60	5
L 04599 APPRO	17S	36E 20	1	2					128	38	5
L 04599	17s	36E 20	1	2					128	38	ç
L 05181	17s	36E 20	1	4					125	75	Ę
L 04549	17s	36E 20	2	1					121	48	5
L 04549 APPRO	17s	36E 20	2	1					121	48	7
L 07862	17s	36E 20	3	4					110	58	Ĕ

Record Count: 14

http://iwaters.ose.state.nm.us:7001/iWATERS/WellAndSurfaceDispatcher



WATER COLUMN REPORT 07/25/2007

(quarters are 1=NW 2=NE 3=SW 4=SE)

(qu	arter	s are D	biggest to	smallest)		Depth	Depth	Wat€
POD Number	Tws	Rng S	sc d d d	Zone	х	Y	Well	Water	Colum
L 04503 APPRO	17S	35E 2-	42				90	43	Ļ
L 04503	17S	35E 2-	42				90	43	Ļ

Record Count: 2

APPENDIX IV

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DRILLING LOGS

STATE M-1 SALT WATER DISPOSAL TANK BATTERY

August 2007

Chesapeake Operating, Inc. Hobbs, NM

> Prepared by: BBC International, Inc.

NEW	MEXICO	OFFICE	\mathbf{OF}	THE	STATE	ENGINEER
		WEL	L RI	ECORI)	

1.OWN	ER OF WELL	
	Name: Chesapeake Operating	Work Phone:
	Contact:	Home Phone:
	Address: P.O. Box 190	-
	City: Hobbs	State: <u>NM</u> _ Zip: <u>88241</u>
	CATION OF WELL(A,B,C,or D required,E or F if know	
Α.	1/41/41/4 Section: 18 Town	
	in Lea	County.
в.	X =feet, Y = Zone in the	feet, N.M. Coordinate System Grant.
	U.S.G.S. Quad Map	
c.	Latitude: <u>32</u> d <u>49</u> m <u>40.7</u> s Longitud	e: <u>103</u> d <u>23</u> m <u>28.3</u> s
D.	East (m), North (m), UTM	Zone 13, NAD (27 or 83)
E.	Tract No, Map No of the	
F.	Lot No, Block Noof Unit/TractSubdivision recorded in	of the County.
	Other: State M Salt Water Disposal	
	On land owned by (required): Darr Angell, P.O. Box	
•		
	ILLING CONTRACTOR	
μ1-	cense Number: WD-1456 Name: White Drilling Company, Inc.	- Nork Phone: 325,803 2050
	Agent: John W. White	
Mai	ling Address: P.O. Box 906	
	City: Clyde	State: TX Zip: 79510
4. DR	ILLING RECORD MW-1	
Dr.	illing began: <u>5/23/07</u> ; Completed: <u>5/23/07</u>	; Type tools: <u>Air Rotary</u> ;
Si	ze of hole: 61/8 in.; Total depth of well: 50.0	ft.;
Co	mpleted well is: Shallow (shallow, arte:	sian);
Dej	pth to water upon completion of well: 41.25	ft.

File Number: Form: wr-20

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_____ page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: MW-1

	n Feet To 50.0		Description of water-bearing formation Stained grayish green sand.	Estimated Yield (GPM)
		······		
· ·	· <u> </u>	······		
	·			

6. RECORD OF CASING

Diameter	Pounds	Threads	Depth	in Feet	Length	Type of Shoe	Perfor	ations
(inches)	per ft.	per in.	Top	Bottom	(feet)		From	То
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
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7. RECORD OF MUDDING AND CEMENTING

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Depth	in Feet	Hole	Sacks	Cubic Feet	Method of Placement
From	То	Diameter	of mud	of Cement	
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 approved by:

State Engineer Representative

No.	Depth	in	Feet	Cubic	Feet	of	Cement	
Т	op	Во	ttom					
				-				
						-		
		No. Depth Top 	-	-	-	-	-	No. Depth in Feet Cubic Feet of Cement Top Bottom

File Number: Form: wr-20

page 2 of 4

9.LOG OF HOLE: MW-1

Depth in From	feet 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 gravish green sand.
25.0	28.0	3.0	Stained gravish green sandstone.
28.0	50.0	22.0	Stained grayish green sand.
20.0		22.0	
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File Number:

Form: wr-20

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

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The und	dersigned	hereby cer	rtifies that	, to the best o	of his knowledge	e and
hole.	, the fore	egoing is a	a true and c	orrect record o	of the above des	scribe
		$\partial \mathcal{L}$			1 ~	
	<u> </u>	Y#		7/10	01	
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		FO	R STATE ENG		ž	

Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com

Fi	le	Number	:

1.OWN	ER OF WELL	
	Name: Chesapeake Operating	Work Phone:
	Contact:	Home Phone:
	Address: P.O. Box 190	
	City: Hobbs	State: NM Zip: 88241
	ATION OF WELL(A,B,C,or D required,E or F if know	
А.	1/41/41/4 Section: <u>18</u> Tov	wnship: <u>1/S</u> Range: <u>36E</u> N.M.P.M.
		County.
в.	X =feet, Y =	feet, N.M. Coordinate System
	Zone in the	Grant.
	U.S.G.S. Quad Map	
c.	Latitude: <u>32</u> d <u>49</u> m <u>42.1</u> s Longitu	ude: 103 d 23 m 27.4 s
D.	East (m), North (m), UTh	M Zone 13, NAD (27 or 83)
E.	Tract No, Map No of the	
F.	Lot No, Block No of Unit/Tract	
		County.
G.	Other: State M Salt Water Disposal	
н.	Give State Engineer File Number if existing well	
	-	
I.	On land owned by (required): Darr Angell, P.O. Bo	ox 190, Lovington, NM 88260
3. DRI	LLING CONTRACTOR	
Lic	cense Number: WD-1456	
	Name: White Drilling Company, Inc.	
	Agent: John W. White	Home Phone: 325-893-2950
Mai	ling Address: P.O. Box 906	
	City: Clyde	
	•	
	ILLING RECORD: SB-1	
	illing began: <u>5/03/07</u> ; Completed: <u>5/03/07</u> ze of hole: 6 1/8 in.; Total depth of well: 39.0	
	mpleted well is: Shallow (shallow, art	
	oth to water upon completion of well: Dry	
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File Number: Form: wr-20

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page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-1

	Depth j From	In Feet To			ption of bearing form	ation		Estimated Yiel (GPM)		
6.1	Diamete	OF CASI er Poun s) per :	ds Thread: ft. per in	. Top		-		Shoe	Perfo From	rations To
7.3	RECORD	OF MUDD	ING AND CH							· · · · · · · · · · · · · · · · · · ·
	Depth From		Hole Diameter	Sacks of mud			Method of	Placen	nent	
	39.0	10.0	6 1/8	8.5			ntonite Pell	ets		
	10.0	0.0	6 1/8	4.5	19.97	ce	ment			
	Pluggin Plu Date	Addı 1gging Met Well Pluq	ctor: ress: thod:							
		1 2 3 4	Iop Bot	tom	.c Feet of Ce	ement				

File Number: Form: wr-20

page 2 of 4

9.LOG OF HOLE: SB-1

Depth in feet Thickness Color and Type of Material Encountered From in feet To 0.0 0.5 0.5 Brown clay & limestone rocks. 0.5 5.0 4.5 Limestone. 7.0 5.0 12.0 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:

Form: wr-20

page 3 of 4

Trn Number:

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

ADDITIONAL STATEMENTS OR EXPLANATIONS:SB-1

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ersigned hereby certifies that, to the best of his knowledge and the foregoing is a true and correct record of the above describe
Driller (mm/dd/year)
FOR STATE ENGINEER USE ONLY

Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com

	File Number:
NEW MEXICO OFFICE OF THE ST WELL RECORD	ATE ENGINEER
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 kn	OMD)
A1/41/41/4 Section: 18 To	
B. X =feet, Y =	feet, N.M. Coordinate System
U.S.G.S. Quad Map	
C. Latitude: <u>32</u> d <u>49</u> m <u>40.7</u> s Longit	ude: <u>103</u> d <u>23</u> m <u>28.3</u> s
D. East (m), North (m), UT	M Zone 13, NAD (27 or 83)
E. Tract No, Map No of the	Hydrographic Survey
F. Lot No, Block No of Unit/Tract Subdivision recorded in	
G. Other: State M Salt Water Disposal	
H. Give State Engineer File Number if existing wel	1:
I. On land owned by (required): Darr Angell, P.O. Bo	ox 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: 61/8 in.; Total depth of well: 50.	
Completed well is: Shallow (shallow, art	cesian);
Depth to water upon completion of well: 42.25	ft.

File Number: Form: wr-20

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page 1 of 4

Trn Number:

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-2

(inches) per ft. per in. Top Bottom (feet) From 2.0 Sch. 40 4.0 0.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 MDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement 50.0 10.0 61/8 13.0 Bentonite Pellets 10.0 0.0 61/8 4.5 19.97 cement 3. PLUGGING RECOR	Yield
RECORD OF CASING Diameter Pounds Threads Depth in Feet Length Type of Shoe Perfor 2.0 Sch. 40 4.0 0.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0	
Diameter (inches) Pounds per ft. per ft. 2.0 Sch. 40 4.0 4.0 0.0 35.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0	
(inches) per ft. per in. Top Bottom (feet) From 2.0 Sch. 40 4.0 0.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 2.0 .020 A.0 35.0 50.0 15.0 35.0 2.0 .020 A.0 35.0 50.0 15.0 35.0 2.0 .0 .0 .0 .0 .0 .0 .0 .0 10.0 0.0 6 1/8 13.0 Bentonite Pellets .0 .0 .00 0.0 6 1/8 4.5 19.97 .0 .0 .0 .00 Betwell Plugging Method:	
(inches) per ft. per in. Top Bottom (feet) From 2.0 Sch.40 4.0 0.0 35.0 35.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 35.0 2.0 .020 4.0 35.0 50.0 15.0 35.0 35.0 <th>ration</th>	ration
2.0 .020 4.0 35.0 50.0 15.0 35.0	То
2.0 .020 4.0 35.0 50.0 15.0 35.0	
RECORD OF MUDDING AND CEMENTING Depth in Feet Hole Sacks Cubic Feet Method of Placement from To Diameter of mud of Cement 50.0 10.0 6.1/8 13.0 Bentonite Pellets 10.0 0.0 6.1/8 4.5 19.97 cement	50.0
Depth in Feet Hole Sacks Cubic Feet Method of Placement From To Diameter of mud of Cement Bentonite Pellets 50.0 10.0 6 1/8 13.0 Bentonite Pellets	
Depth in Feet Hole Sacks Cubic Feet Method of Placement From To Diameter of mud of Cement Bentonite Pellets 50.0 10.0 6 1/8 13.0 Bentonite Pellets	
From To Diameter of mud of Cement 50.0 10.0 6 1/8 13.0 Bentonite Pellets 10.0 0.0 6 1/8 4.5 19.97 cement	
From To Diameter of mud of Cement 50.0 10.0 6 1/8 13.0 Bentonite Pellets 10.0 0.0 6 1/8 4.5 19.97 cement	
10.0 0.0 6 1/8 4.5 19.97 cement	
10.0 0.0 6 1/8 4.5 19.97 cement	
Plugging Contractor: Address: Plugging Method: Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom	
. PLUGGING RECORD Plugging Contractor: Address: Plugging Method: Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom	
Plugging Contractor: Address: Plugging Method: Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom	
Plugging Method: Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom	
Date Well Plugged: Plugging approved by: State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom	
Plugging approved by:State Engineer Representative No. Depth in Feet Cubic Feet of Cement Top Bottom	
Top Bottom	
Top Bottom	
Top Bottom	
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File Number: Form: wr-20

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9. LOG OF HOLE: SB-2

Depth i From	n feet 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'
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File Number: Form: wr-20

page 3 of 4

	File Number:
	NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD
	DITIONAL STATEMENTS OR EXPLANATIONS:SB-2 des present in soil.
	orary well set to measure groundwater for 24 hours, pull and plugged.
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The t belie hole.	undersigned hereby certifies that, to the best of his knowledge and of, the foregoing is a true and correct record of the above described
	71007
	Drilfer (mm/dd/ye'ar)
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	FOR STATE ENGINEER USE ONLY
Quad	;FWL ;FSL ;Use ;Location No.
File Numb	er: Trn Number: m: wr-20 page 4 of 4
FOI	m: wi-zu page 4 of 4
	Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com

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NEW	MEXICO	OFFICE	OF	$\mathbf{T}\mathbf{H}\mathbf{E}$	STATE	ENGINEER		
WELL RECORD								

1. OWNER OF WELL	
Name: Chesapeake Operating	Work Phone:
Contact:	Nome Dhene.
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 know	m)
A1/41/41/4 Section: 18 Town	
B. X =feet, Y =	
Zone in the	Grant.
U.S.G.S. Quad Map	
C. Latitude: <u>32</u> d <u>49</u> m <u>41.0</u> s Longitud	de: <u>103</u> d <u>23</u> m <u>27.8</u> 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 	
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: <u>5/22/07</u> ; Completed: <u>5/22/07</u>	: Type tools: Air Rotary :
Size of hole: 6 1/8 in.; Total depth of well: 39.0	
Completed well is: Shallow (shallow, arte	
Depth to water upon completion of well: Dry	

File Number: Form: wr-20

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page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-3

Depth From	in Feet To	Description of water-bearing formation	Estimated Yield (GPM)
·			

6. RECORD OF CASING

	-		Length	Type of Shoe	Perfora	ations
ft. per in.	Тор	Bottom	(feet)		From	То
	· ····	<u></u>				
<u></u> _						
		· · · · · · · · · · · · · · · · · · ·			. <u></u>	·
		-	nds Threads Depth in Feet ft. per in. Top Bottom	. 5		and finded before in root bongen rife er inte

7. RECORD OF MUDDING AND CEMENTING

Depth	in Feet	Hole	Sacks	Cubic Feet	Method of Placement
From	То	Diameter	of mud	of Cement	
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	Cubic	Feet	of	Cement	
	Т	op	Bo	ttom					
1	<u>.</u>	·							
2									
3									
4									
5									

page 2 of 4

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File Number: Form: wr-20

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9.LOG OF HOLE: SB-3

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Depth in From	feet 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
57.0	09.0	2.0	
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•		Fi	le Number:
	NEW MEXICO OFFICE WEI	OF THE STATE L RECORD	ENGINEER
. ADDITIONA Chlorides pres	L STATEMENTS OR EXPL sent in soil.	ANATIONS:SB-3	
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The undersi belief, the hole.	foregoing is a true	that, to the be and correct reco	est of his knowledge and ord of the above described $\boxed{D[27]}_{dd/year)}$
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le Number: Form: wr-2	20 page	4 of 4	Trn Number:
		Form provided by Form	s On-A-Disk • 214-340-9429 • FormsOnADisk.com

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	File Number:
NEW MEXICO OFFICE OF THE STAT WELL RECORD	TE ENGINEER
1. OWNER OF WELL Name: Chesapeake Operating Contact: Address: P.O. Box 190	Home Phone:
City: Hobbs	State: <u>NM</u> Zip: <u>88241</u>
2. LOCATION OF WELL(A,B,C,or D required,E or F if known A1/41/41/4 Section: 18 Town in Lea	
B. X =feet, Y = Zone in the U.S.G.S. Quad Map	feet, N.M. Coordinate System Grant.
C. Latitude: <u>32</u> d <u>49</u> m <u>41.7</u> s Longitud	e: 103 d 23 m 27.2 s
D. East (m), North (m), UTM	
E. Tract No, Map No of the	
F. Lot No, Block No of Unit/Tract Subdivision recorded in	of the
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. Agent: John W. White Mailing Address: P.O. Box 906	
City: Clyde	State: TX Zip: 79510
<pre>4. DRILLING RECORD SB-4 Drilling began: 5/22/07 ; Completed: 5/22/07 Size of hole: 6 1/8 in.; Total depth of well: 39.0 Completed well is: Shallow (shallow, artes Depth to water upon completion of well: Dry</pre>	ft.; sian);

File Number: Form: wr-20

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page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-4

Depth From	in Feet To		Description of water-bearing formation	Estimated Yield (GPM)

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		· · · · · · · · · · · · · · · · · · ·		

6. RECORD OF CASING

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Diameter (inches)	Threads per in.	-	Length (feet)	Type of Shoe	Perfor From	
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7. RECORD OF MUDDING AND CEMENTING

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Depth	in Feet	Hole	Sacks	Cubic Feet	Method of Placement	
From	То	Diameter	of mud	of Cement		
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	Cubic	Feet	of	Cement
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File Number: Form: wr-20

page 2 of 4

9.LOG OF HOLE: SB-4

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Depth in From	feet 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.
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File Number: Form: wr-20

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Trn Number:

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	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.
	$\frac{1/0004}{(mm/dd/year)}$
	FOR STATE ENGINEER USE ONLY
	Quad; FWL; FSL; Use; Location No
Fil	e Number: Trn Number: Form: wr-20 page 4 of 4
	Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com

	NEW	MEXICO	OFFICE	\mathbf{OF}	$\mathbf{T}\mathbf{H}\mathbf{E}$	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 know	
A1/41/41/4 Section: 18 Town	
in Lea	County.
B. X =feet, Y =	feet, N.M. Coordinate System
Zone in the	Grant.
U.S.G.S. Quad Map	
C. Latitude: <u>32</u> d <u>49</u> m <u>41.4</u> s Longitud	de: 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	
·	· · · · · · · · · · · · · · · · · · ·
G. Other: State M Salt Water Disposal	
H. Give State Engineer File Number if existing well:	
	400 Lawington NM 99260
I. On land owned by (required): Darr Angell, P.O. Box	(190, Lovington, NW 88280
3. DRILLING CONTRACTOR	
License Number: WD-1456	
Name: White Drilling Company, Inc.	Work Phone: 325-893-2950
Agent: John W. White	
Mailing Address: P.O. Box 906	
	State: TX Zip: 79510
4. DRILLING RECORD: SB-5	
Drilling began: 5/22/07 ; Completed: 5/22/07	
Size of hole: 61/8 in.; Total depth of well: 35.0	
Completed well is: Shallow (shallow, arte	
Depth to water upon completion of well: Dry	ft.

File Number: Form: wr-20

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page 1 of 4

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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-5

Depth From	in Feet To	Description of water-bearing formation	Estimated Yield (GPM)
<u></u>		 	
······		 	
		 	· · · · · · · · · · · · · · · · · · ·

6. RECORD OF CASING

Diameter (inches)	Threads per in.	-		Length (feet)	Type of Shoe	Perfora From	
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7. RECORD OF MUDDING AND CEMENTING

Depth	in Feet	Hole	Sacks	Cubic Feet	Method of Placement
From	То	Diameter	of mud	of Cement	
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	Cubic	Feet	of	Cement
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File Number: Form: wr-20

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page 2 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9.LOG OF HOLE: SB-5

Depth in feet Thickness Color and Type of Material Encountered From То in feet 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:

Form: wr-20

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Trn Number:

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	File Number:
	OF THE STATE ENGINEER L RECORD
10. ADDITIONAL STATEMENTS OR EXPL. Chlorides present in soil.	ANATIONS:SB-5
The undersigned hereby certifies belief, the foregoing is a true a hole.	that, to the best of his knowledge and and correct record of the above described
Dri M er	(mm/dd/year)
	ENGINEER USE ONLY
Quad; FWL; FSL; Use	
File Number: Form: wr-20 page 4	Trn Number:
	Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com

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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 IOCATION OF WELL (A R C on D nominal R on E if the	
2. LOCATION OF WELL (A,B,C,or D required, E or F if known A1/41/41/4 Section: 18 Town	
in Lea	County.
B. X =feet, Y =	feet, N.M. Coordinate System
Zone in the	Grant.
U.S.G.S. Quad Map	
C. Latitude: <u>32</u> d <u>49</u> m <u>40.7</u> s Longitu	de: 103 d 23 m 25.9 s
D. East (m), North (m), UTM	
E. Tract No, Map No of the	
F. Lot No, Block No of Unit/Tract	of the
Subdivision recorded in	County.
 G. Other: <u>State M Salt Water Disposal</u> H. Give State Engineer File Number if existing well: I. On land owned by (required): <u>Darr Angell, P.O. Box</u> 	
3. DRILLING CONTRACTOR	
License Number: WD-1456	
Name: White Drilling Company, Inc.	
Agent: John W. White	Home Phone: 325-893-2950
Mailing Address: P.O. Box 906	
·	
City: Clyde	
A DETITING DECODD. OD C	
4. DRILLING RECORD: SB-6 Drilling began: 5/22/07 ; Completed: 5/22/07	; Type tools: Air Rotary ;
Size of hole: 61/8 in.; Total depth of well: 35.0	
Completed well is: Shallow (shallow, arte	
Depth to water upon completion of well: Dry	

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page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-6

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Depth : From	in Feet To 		water-:	bearing forma				
 5 . RECORD	OF CASI			· · · · · · · · · · · · · · · · · · ·			 	
				in Feet Bottom	(feet)		 From	·····
Depth From	in Feet		Sacks	Cubic Feet of Cement		lethod of onite Pelle	ent	
10.0		·		19.97	ceme		 	
Date	ugging Met Well Plug g approved No 1 2	thod: gged: d by: d by: d by:	Feet Cubi	c Feet of Ce	ineer Re ment			
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Form: wr-20

page 2 of 4

9.LOG OF HOLE: SB-6

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Depth in From	feet 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.
52.0		5.0	
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The und belief, hole.	ersigned hereby certifies that, to the best of his knowledge an the foregoing is a true and correct record of the above descri
	prigrati (ndu/dd/year)
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	FOR STATE ENGINEER USE ONLY
Ouad	;FWL;FSL;Use;Location No
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• · ·	
le Number:	

Fi	1	e	Number:	

1. OWNER OF WELL	
Name: Chesapeake Operating	Work Phone:
Contact:	Home Phone:
Address: P.O. Box 190	
·	
City: <u>Hobbs</u>	State: NM Zip: 88241
2. LOCATION OF WELL (A, B, C, or D required, E or F if kr	(תאסנ
A1/41/41/4 Section: 18 To	
in Lea	County.
B. $X = $ feet, $Y = $	feet, N.M. Coordinate System
Zone in the U.S.G.S. Quad Map	Grant.
C. Latitude: <u>32</u> d <u>49</u> m <u>40.2</u> s Longi	tude: <u>103</u> d <u>23</u> m <u>27.5</u> s
D. East (m), North (m), U	IM 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: <u>State M Salt Water Disposal</u> H. Give State Engineer File Number if existing well I. On land owned by (required): Darr Angell, P.O. B 	
	<u> </u>
3. DRILLING CONTRACTOR	
License Number: WD-1456	
Name: White Drilling Company, Inc.	
Agent: John W. White Mailing Address: P.O. Box 906	Home Phone: 323-693-2930
Mailing Address: F.O. BOX 900	
City: Clyde	State: TX Zip: 79510
4. DRILLING RECORD SB-8	· Tumo tools: Air Rotary
Drilling began: <u>5/23/07</u> ; Completed: <u>5/23/07</u> Size of hole: 6 1/8 in.; Total depth of well: 39	
Completed well is: Shallow (shallow, ar	
Depth to water upon completion of well: Dry	ft.

page 1 of 4

NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: SB-8

Depth From	in Feet To		Description of water-bearing formation	Estimated Yield (GPM)
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<u> </u>		<u> </u>		· · · · · · · · · · · · · · · · · · ·
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6. RECORD OF CASING

Diameter (inches)			-		Length (feet)	Type of Shoe	Perfor From	
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7. RECORD OF MUDDING AND CEMENTING

Depth	in Feet	Hole	Sacks	Cubic Feet	Method of Placement
From	То	Diameter	of mud	of Cement	
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

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Plugging Contractor:	
Address:	
Plugging Method:	
Date Well Plugged:	

Plugging approved by:

State Engineer Representative

	No.	Depth	in	Feet	Cubic	Feet	of	Cement	
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NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

9.LOG OF HOLE: SB-8

Depth in From	feet 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.
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File Number: Form: wr-20

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File Number:
NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD
ADDITIONAL STATEMENTS OR EXPLANATIONS:SB-8 Chlorides present in soil.
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·····
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 $\frac{1}{(mm/dd/year)}$
· FOR STATE ENGINEER USE ONLY
Quad; FWL; FSL; Use; Location No
e Number: Trn Number: Form: wr-20 page 4 of 4

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TABLES

TABLE 1 SUMMARY SOIL ANALYTICAL DATA TABLE 2 SUMMARY GROUND WATER ANALYTICAL DATA

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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

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		Sample	SB1 @ 1	SB1 @ 3"*	SB1 @ 5	SB1 @ 20'	SB1 @ 39"
Analyte	Method	Date					
			🗞 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

		Sample	SB2 @ 1	SB2,@3'	SB2 @ 5'	SB2 @ 30'	SB2 @ 50!
Analyte	Method	Date					
			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

		Sample	SB3 @ 1'	SB3 @ 3'	SB3 @ 5' ,	SB3 @ 25'	SB3 @`39'
Analyte	Method	Date					
			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

		Sample	SB4 @ 15	SB4 @ 3'	SB4 @ 5"	SB4 @ 20'	SB4 @ 39'
Analyte	Method	Date					
			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

		Sample	SB5 @`1'	SB5 @ 3 ¹⁴	[▶] SB5 @ 5' [⊾]	SB5 @ 20!	SB5:@ 35'
Analyte	Method	Date					
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/22/07		<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

		Sample	SB6 @ 1	SB6 @ 3'	SB6 @ 5'	SB6 @ 15'	SB6 @ 35'
Analyte	Method	Date					
			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

		Sample	- SB7 @ 1'	SB7 @ 3'	, SB7:@ 5'	SB7 @ 20'	SB7 @ 39'
Analyte	Method	Date					
			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

		Sample	SB8 @ 1'	SB8 @ 3'	SB8 @ 5'	SB8 @ 20'	SB8 @ 39'
Analyte	Method	Date					
			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

		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

Table 2. Groundwater Laboratory Analytical Results Summary State M-1

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